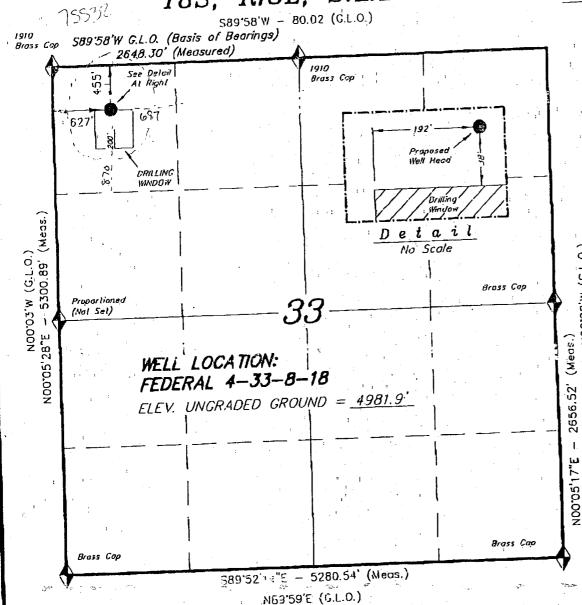
Form 3160-3 (September 2001)	FORM APPROVED OMB No. 1004-0136 - Expires Jenuary 31, 2004  5. Leaso Serial No.						
DEPARTMENT	UTU-7487	2					
BUREAU OF LA	6. If Indian, Allonce or						
APPLICATION FOR PERI	MIT TO DRILL OR REENTER		N/A				
la. Type of Work: A DRILL	REENTER		7. If Unit or CA Agreen				
Ib. Type of Well:	Other E Single Zone	Multiple Zone	8. Lease Name and Well Federal 4-33-8-1				
Name of Operator     Newfield Production Company			5. API Well No.				
3a. Address Route #3 Box 3630, Myton UT 840	3b. Phone No. (include are (435) 646-372		10. Field and Fool, or Ex				
4. Location of Well (Report location clearly and in acc	cordance with any State requirements.*)	-	11. Sec., T., R., M., or Bi	k, and Survey or Area			
At surface NW/NW 455 FNL 627 FWL			NW/NW Sec. 33.	T8S R18E			
At proposed prod. zone		·	12. County or Parish	13. State			
14. Distance in miles and direction from nearest town or	kap kast ource.		Uintah	UT			
15. Distance from propose 4ª location to nearest	Approximately 22.3 miles south of Myton, Utah  Distance from proposed*  16. No. of Acres in lease  17. Sp.						
property or lease line, it. (Also to nearest drig, unit line, if any) Approx. 455 th	it line, if any) Approx 435 same, 6145 ware			40 Acres			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 965	19. Proposed Depth			UBIA Bond No. on file UTU0056			
21. Elevations (Show whather DF, KDB, RT, GL, etc.) 4981.3' GL	22. Approximate date wo	ck will start*	23. Estimated duration	· moud to rig restance.			
4981.8 04	24. Attachments						
The following, completed in accordance with the requirem	nents of Onshore Oil and Gas Order No.1,	shall be attached to the	nis form:				
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National SUPO shall be filed with the appropriate Forest Service).	Forest System Lands, the 4. Bond litem 2 5. Operas	no cover the operati O above). tor certification.	ons unless covered by an experimental and/or plans as				
25. Signinure ma Holele	Name (Printed Type Lana Nebeker	•	¦r ¦	9-30-06			
Production Clerk				<u>.</u>			
Approved by (Signature)	Name (P: Inted/Typ	oed)	: ;	'ate"			
Tide	Office		4	· ·			
Application approval does not warrant or certify the the apperations thereon.  Conditions of approval, if a .y, are needed.							
Title 18 U.S.C. Section 10.1 and Title 43 U.S.C. Section States any false, fictitious or fraudulent statements or representations.	1212, make it a crime for any person kno esentations as to any matter within its jurise	owingly and willfully diction.	to make to any department	or agency of the United			
*(Instructions on reverse)		•	-				

INLAND PRODUCTION COMPANY

T8S, R18E, S.L.B.&M.



= SECTION CORNERS LOCATED

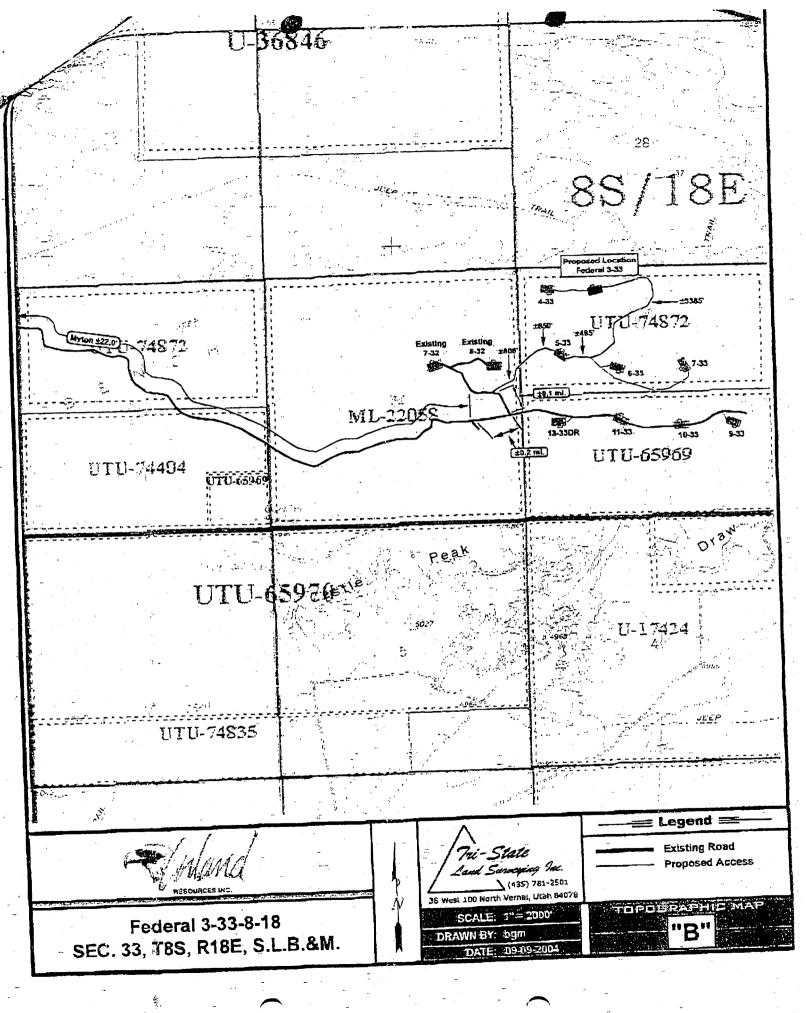
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

WELL LOCATION, FEDERAL 4-33-8-18, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 33, T8S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.

THIS IS TO CERTIFY THATOPHE ABOVE PEOF WAS PREPARED FROM FIELD HOTE OF ACTUME SURVEYS MADE BY ME OR UNDER WY SUPERPOSED WAS THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF No.189377 STACY W.

TRI STATE LAND SURVEYING & CONSULTING 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781<sup>™</sup>25011

(433) 701 230.				
SCALE:  " = 1000"	SURVEYED BY: C.M.			
DATE: 9-7-04	DRAFTED BY: F.T.M.			
NOTES:	FILE #			



#### NEWFIELD PRODUCTION COMPANY FEDERAL 3-33-8-18 NE/NW SECTION 33, T8S, R18E UINTAH COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### DRILLING PROGRAM

#### 1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

#### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta 0' - 1640' Green River 1735' Wasatch 6300'

#### 3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1735' - 6300' - Oil

#### 4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

#### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

#### 6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

#### 7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

#### 8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

#### 9. <u>ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:</u>

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

#### 10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

#### NEWFIELD PRODUCTION COMPANY FEDERAL #3-33-8-18 NE/NW SECTION 33, T8S, R18E UINTAH COUNTY, UTAH

#### ONSHORE ORDER NO. 1

#### MULTI-POINT SURFACE USE & OPERATIONS PLAN

#### 1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Federal #3-33-8-18 located in the NE 1/4 NW 1/4 Section 33, T8S, R18E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 13.8 miles  $\pm$  to it's junction with an existing dirt road to the north; proceed northerly  $\pm$  0.3 miles  $\pm$  to it's junction with an existing road to the east; proceed northeasterly  $\pm$  6.5 miles to it's junction with an existing road to the north  $\pm$  .01 to it's junction with the beginning of the proposed access road; proceed northeasterly along the proposed access road - 5,530' $\pm$  to the proposed well location.

#### 2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

#### 3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

#### 5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

#### 6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

#### 7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

#### 8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

#### 9. WELL SITE LAYOUT

See attached Location Layout Diagram.

#### 10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

#### 11. SURFACE OWNERSHIP - Bureau Of Land Management

#### 12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #03-154, 02/3/04. Paleontological Resource Survey prepared by, Wade E. Miller, 5/12/04. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 4,730' of disturbed area be granted in Lease UTU-74872 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a 4" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests 4,730' of disturbed area be granted in Lease UTU-74872 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a 3" poly water return line. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP.

#### Threatened, Endangered, And Other Sensitive Species

Dixie Sadler to advise.

#### Reserve Pit Liner

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

#### Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

ShadscaleAtriplex confertifolia5 lbs/acreBlack SageArtemisia Nova1 lbs/acreIndian Rice GrassOryzopsis Hyemoides6 lbs/acre

#### **Details of the On-Site Inspection**

The proposed Federal #3-33-8-18 was on-sited on 5/20/04. The following were present; Brad Mecham (NewfieldProduction), David Gerbig (Newfield Production), Byron Tolman (Bureau of Land Management). Weather conditions were clear.

#### 13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

#### <u>Representative</u>

Name: Brad Mecham

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

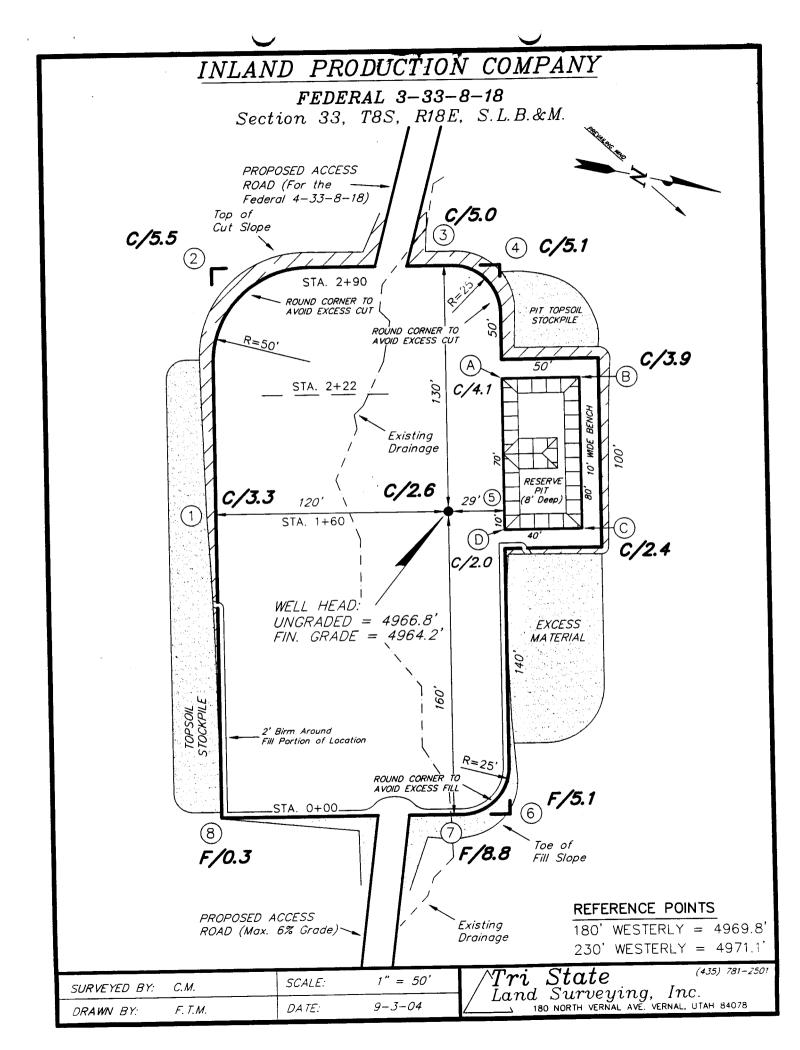
(435) 646-3721

#### Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #3-33-8-18 NE/NW Section 33, Township 8S, Range 18E: Lease UTU-74872 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

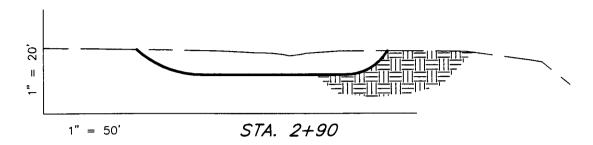
**Production Clerk** 

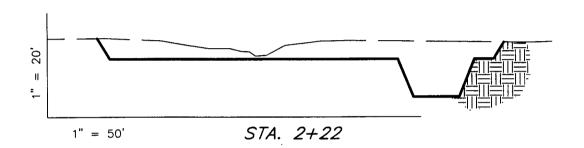


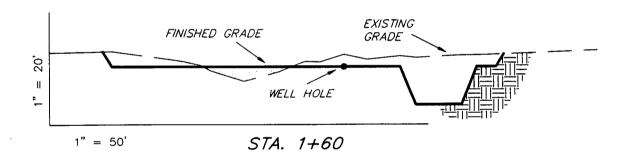
## INLAND PRODUCTION COMPANY

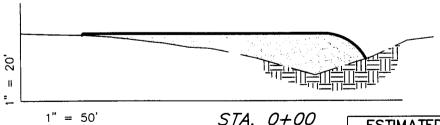
CROSS SECTIONS

FEDERAL 3-33-8-18









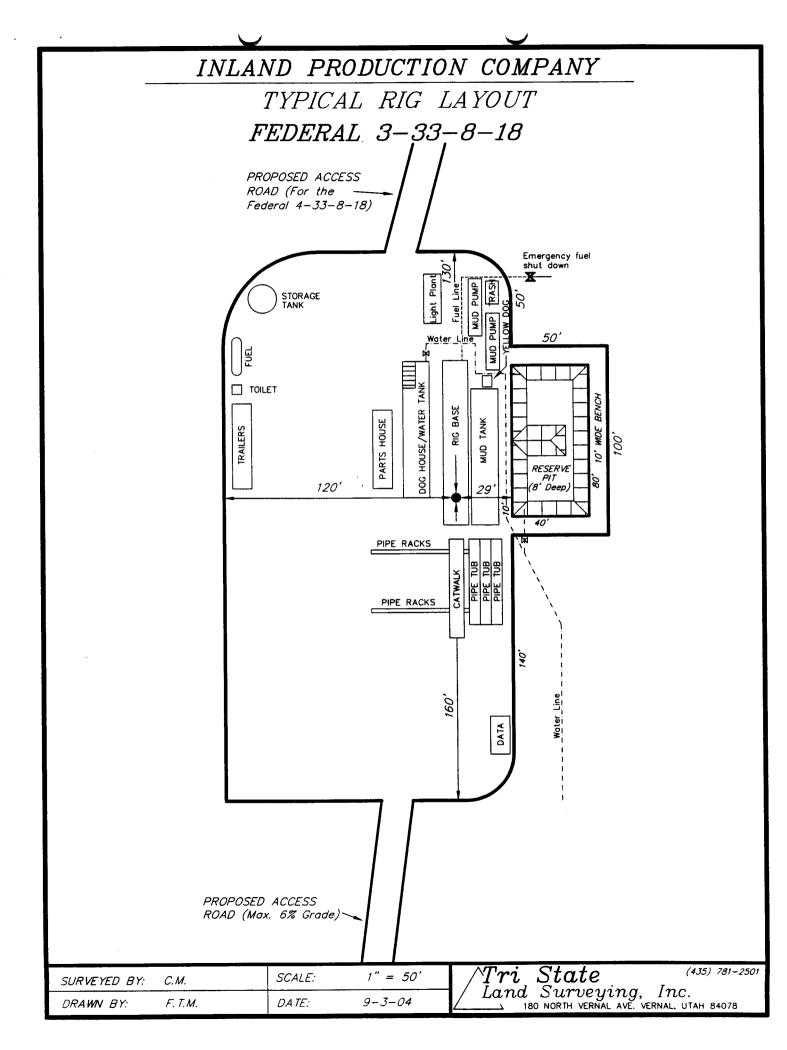
NOTE: UNLESS OTHERWISE NOTED ALL CUT/FILL SLOPES ARE AT 1.5:1 ESTIMATED EARTHWORK QUANTITIES
(No Shrink or swell adjustments have been used)
(Expressed in Cubic Yards)

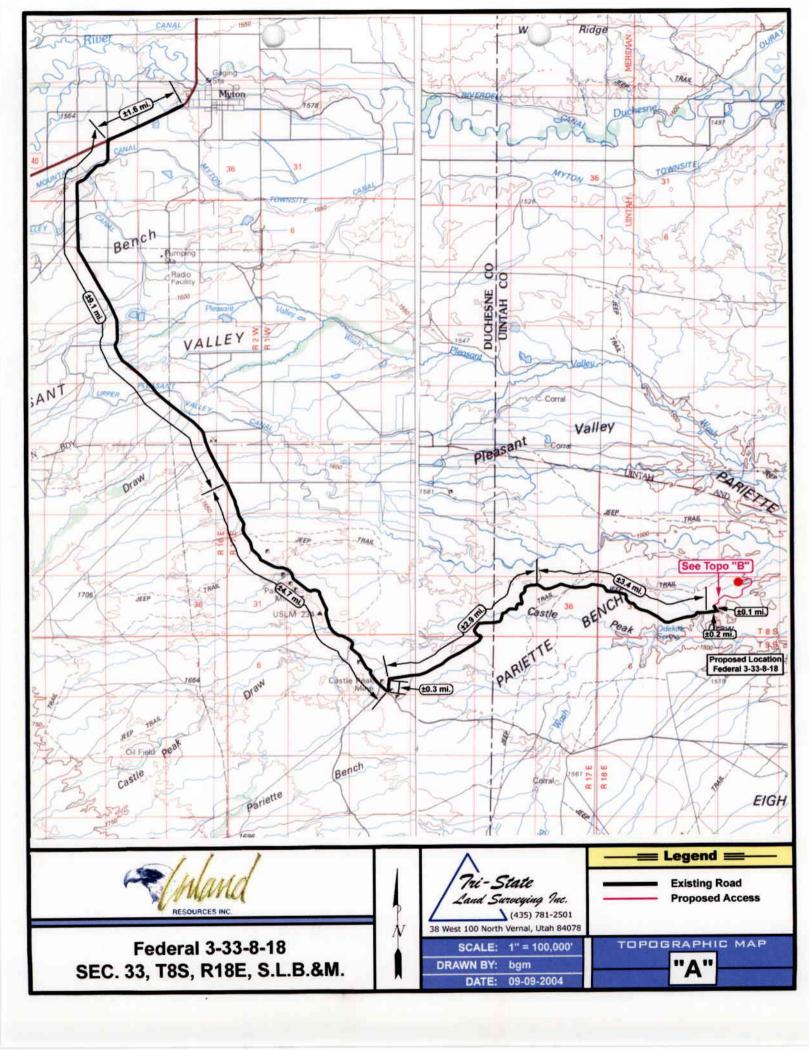
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,530	2,530	Topsoil is not included	0
PIT	640	0	in Pad Cut	640
TOTALS	3,170	2,530	890	640

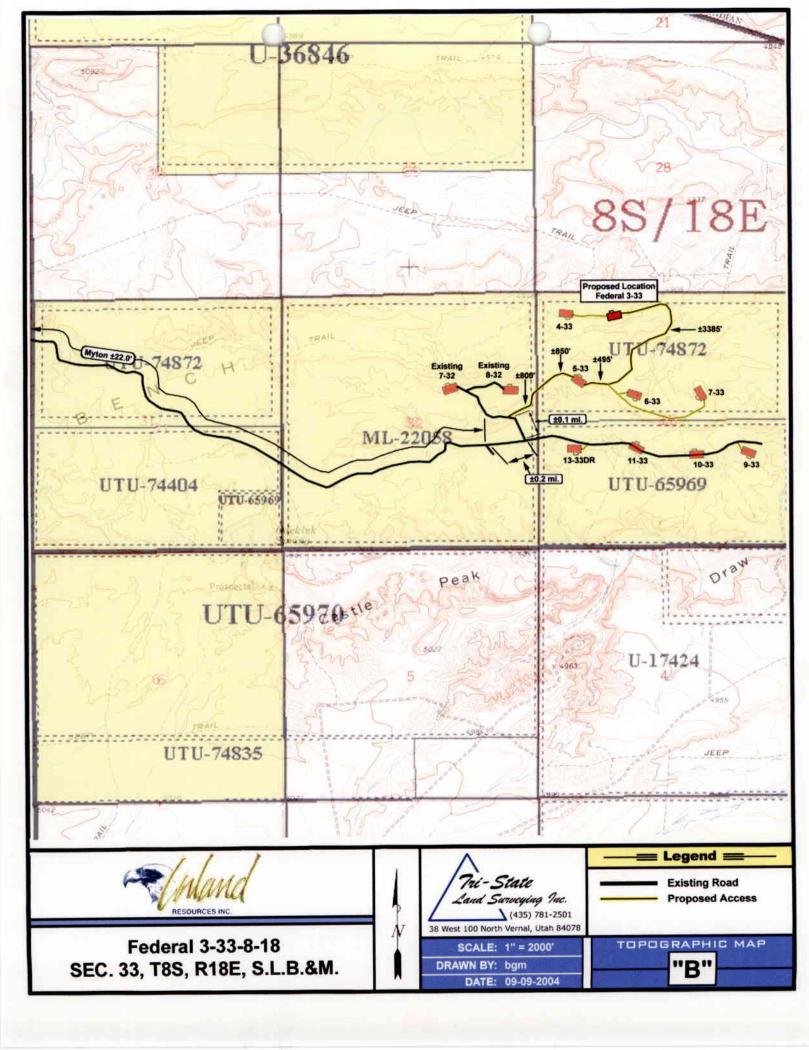
SURVEYED BY:	C.M.	SCALE:	1" = 50'
DRAWN BY:	F. T.M.	DATE:	9-3-04

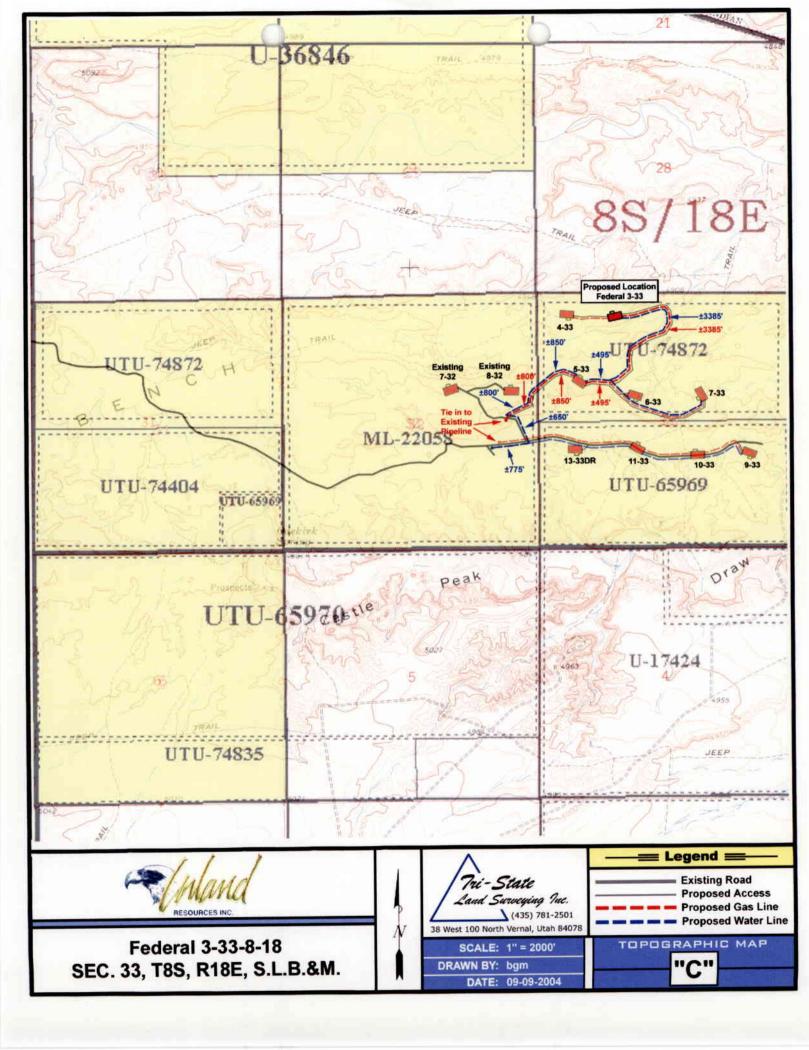
/Tri State (435) 781-2501
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

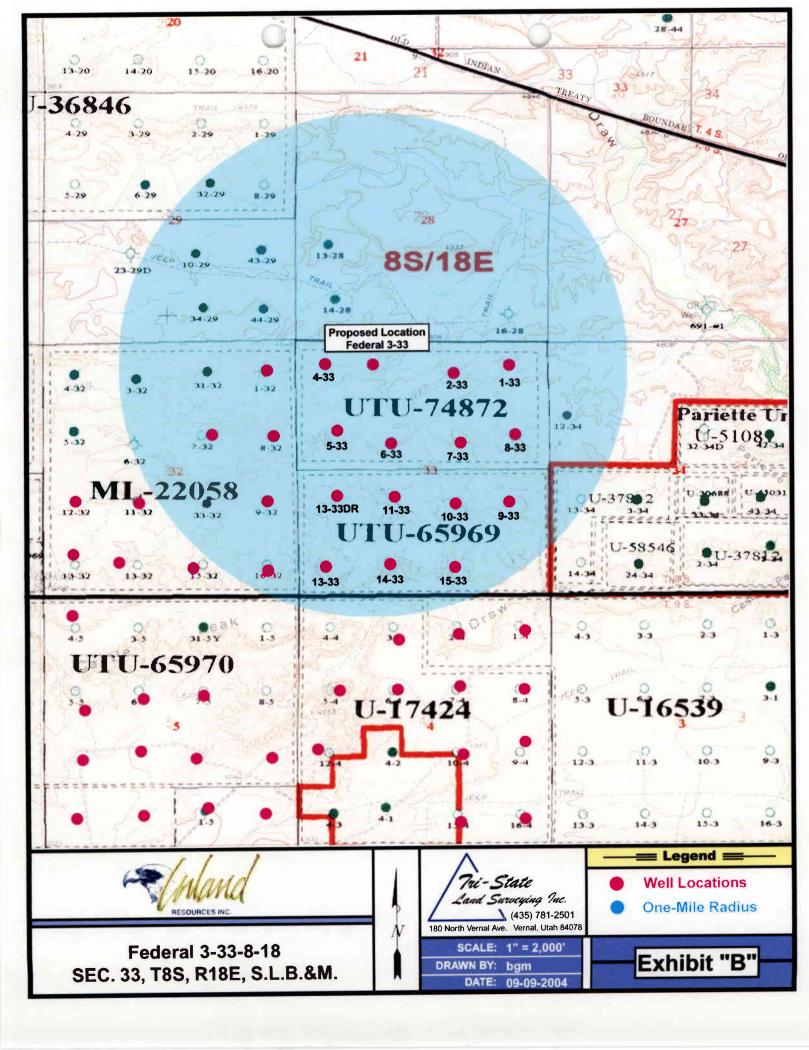






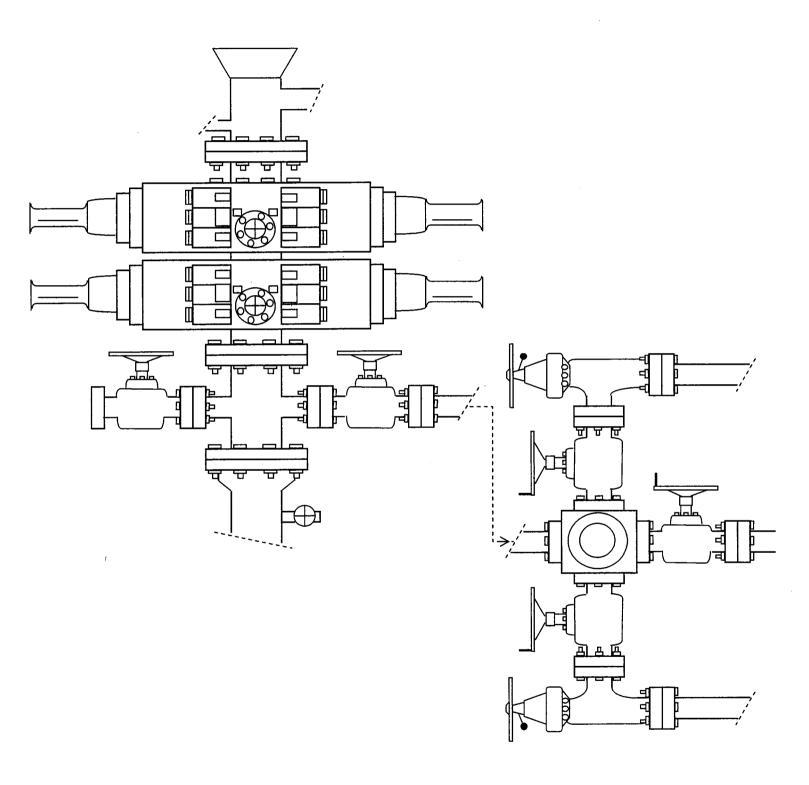


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## 2-M SYSTEM

Blowout Prevention Equipment Systems



**EXHIBIT C** 

Exhibit"D"

Page 1 of 4

CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTIONS PARCEL IN T 8 S, R18 E, SEC. 33 AND T 9 S, R 18 E, SEC. 3 & 4, UINTAH COUNTIES, UTAH

BY:

Katie Simon and Keith R. Montgomery

Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Inland Production Route 3, Box 3630 Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants P.O. Box 147 Moab, Utah 84532

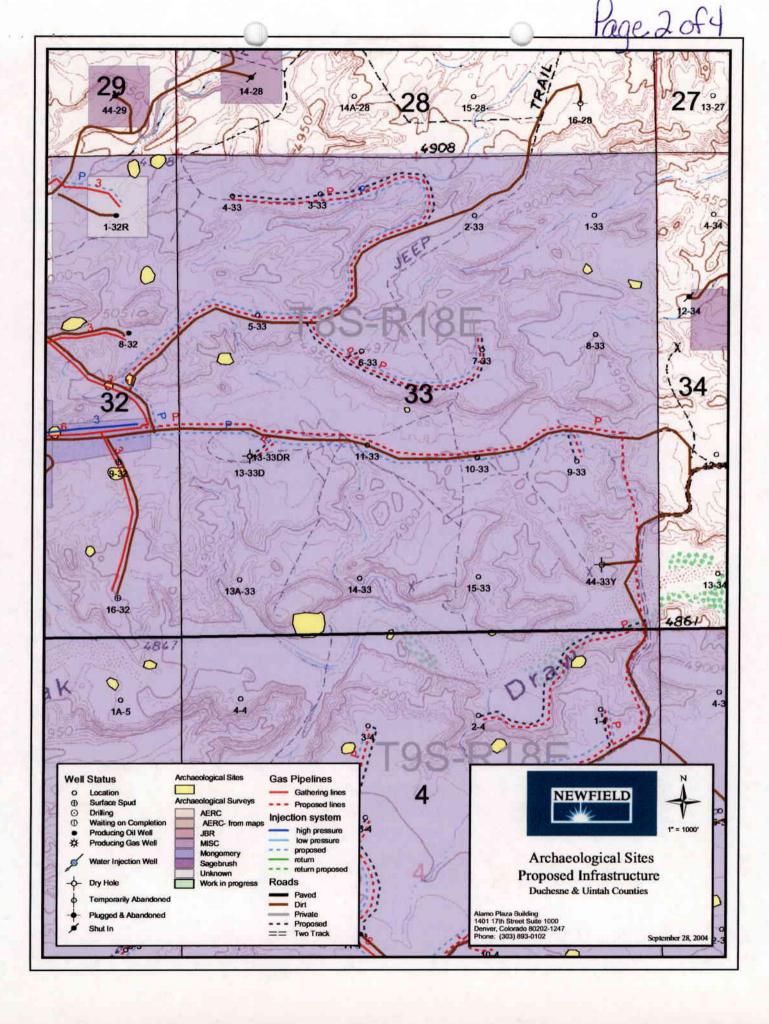
MOAC Report No. 03-154

February 3, 2004

United States Department of Interior (FLPMA)
Permit No. 03-UT-60122

State of Utah Antiquities Project (Survey)

Permit No. U-03-MQ-0799b



Page 30f4

#### INLAND RESOURCES, INC.

# PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, UINTAH COUNTY, UTAH

(Section 33, T 8 S, R 18 E, & Section 6, T 9 S, R 19 E)

#### REPORT OF SURVEY

Prepared for:

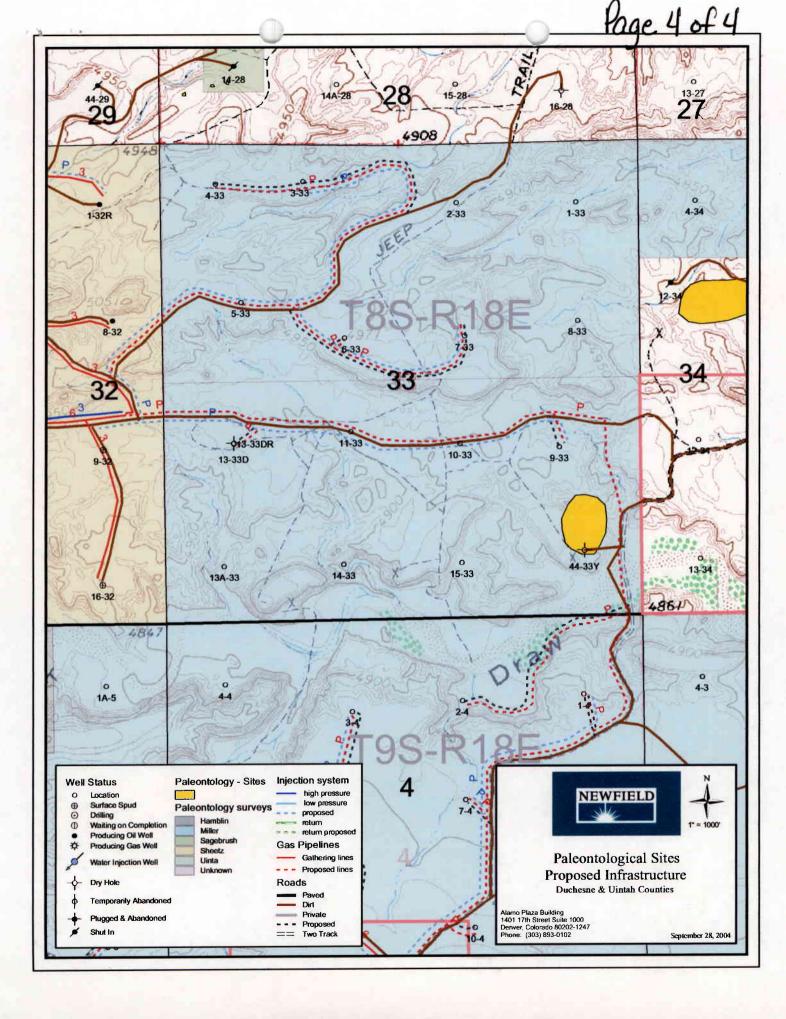
Inland Resources, Inc.

Prepared by:

Wade E. Miller

Consulting Paleontologist

May 12, 2004



10/07/2004 11:02 KRANICA CARSON CARACTERISTICS

Conditions of approval, if any, are attached.

(Instructions on reverse)

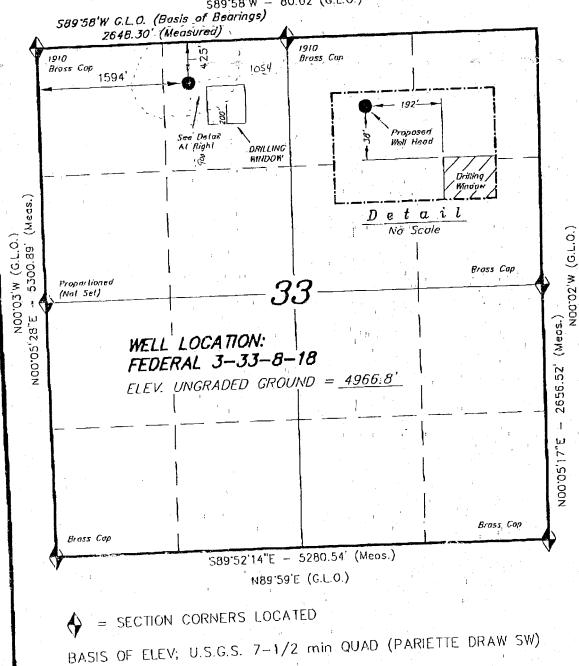
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FORM APPROVED Form 3160-3 OMB No. 1004-0136 Expires January 31, 2004 (September 2001) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR UTU-74872 BUREAU OF LAND MANAGEMENT 6. If Indian, Alloree or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER N/A 7. If Unit or CA Agreement, Name and No. la. Type of Work: DRILL REENTER N/A 8. Lease Name and Wall No. lb. Type of Well: A Oil Well Gas Well Gother Single Zone Multiple Zone Federal 3-33-3-18 9. API Well No. Name of Operator Newfield Production Company 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address (435) 646-3721 Route #3 Box 36 30, Myton UT 84052 11. Sec., T., R., M., or Bik. and Survey or Area Location of Well (Re, ort location clearly and in accordance with any State requirements.\*) At surface NEA V 272 FNL 1594' FWL **NE/NW** Sec. 33, T8S R18E At proposed prod. zone 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office" Approximately 22.3 miles south of Myton, Utah Uintah UT 17. Specing Unit dedicated to this well 16. Nn. of Acres in lease 15. Distance from proposed\* location to nearest property or lease line, it.
(Also to nearest drig unit line, if any) Approx. 425 time, 4855 thank 40 Acres 677.35 20, BLM/BLA Bond No. on file 19. Proposed Depth 18. Distance from proposed location\* to nearest well, drilling, completed. applied for, on this lease, ft. UTU0056 6500" 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate data work will start\* 23. Estimated duration 1st Querce/ 2005 elicity serven (7) days from soud to rig rel 4966.8" GL 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Cas Order No.1, shall be attached to this form: Bond to cover the operations unless covered by an chisting bond on file (see 1. Well plat certified by a segistered surveyor. Item 20 above). 2. A Drilling Plan, Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate prest Service Office). authorized officer. 25. Signatur Name (Printed/Typed) Lana Meheker Production Clerk Approved by (Signature) Name (Pr. 1 d/Typed) Date Title Office: Application approval does not warrant or certify the the applicant holds legal or equitable tife to those rights in the subject least which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any parson knowingly and willfully to make to any department or agency of the United

# T8S, R18E, S.L.B.&M.

 $589^{\circ}58'W - 80.02 (G.L.O.)$ 



WELL LOCATION, FEDERAL 3-33-8-18, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 33, T8S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.

INLAND PRODUCTION COMPANY

THIS IS TO CERTIFY THATOP PREPARED FROM FIELD NOT ACTUAL MADE BY ME OR UNDER THE SAME ARE TRUE AND GORRECT TOWNHIS MY KNOWLEDGE AND FELLIP No.189377 STACY W.

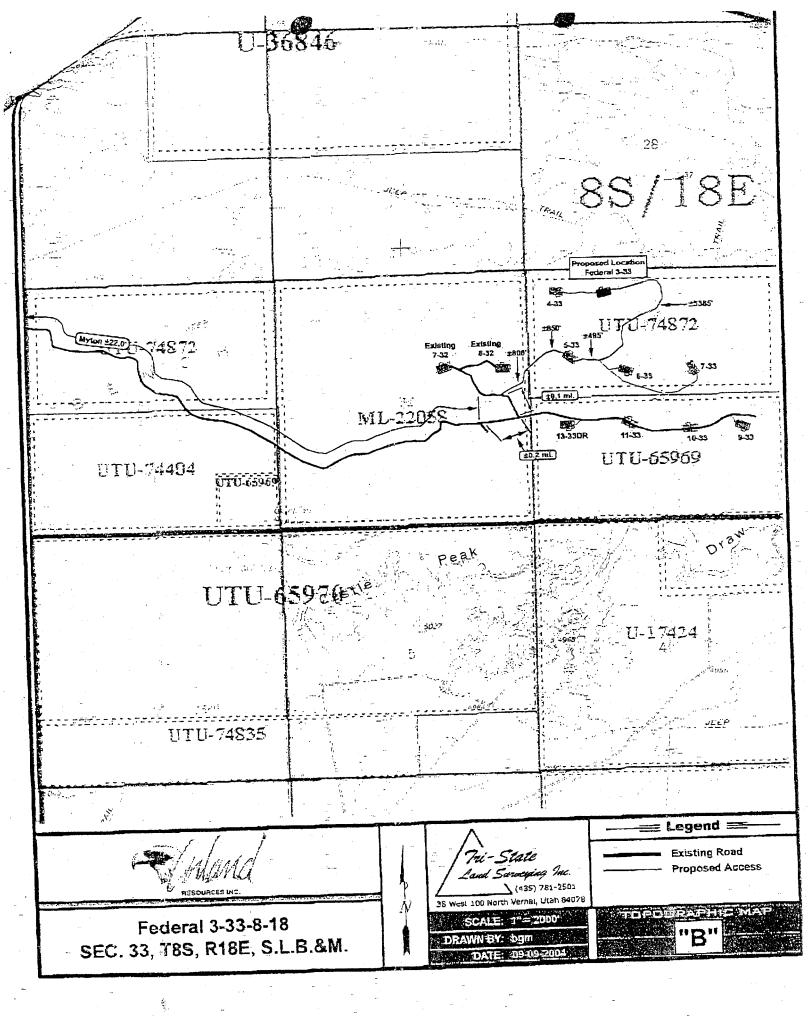
REDISTRATION OF

TRI STATE LAND SURVEYING & CONSULTIN 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

(435) 781-2501

SURVEYED BY: C.M. SCALE: 1" = 1000' DRAFTED BY: F.T.M. DATE: 9-3-04 FILE #

NOTES:





September 30, 2004

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill:

Federal 3-33-8-18 ✓ Federal 4-33-8-18 Federal 5-33-8-18 Federal 6-33-8-18 Federal 7-33-8-18 Federal 10-33-8-18 Federal 11-33-8-18 Federal 11-33-8-18

Gana Deleker

RECEIVED OCT 0 4 2004 DIV. OF OIL, GAS & MINING

#### Dear Diana:

Enclosed find APD's on the above referenced wells. The 8-13-9-16 and 13-13-9-16 are Exception Locations. I have contacted our Land Department in the Denver office and they will be providing you with the appropriate Exception Location Letters. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Lana Nebeker Production Clerk

enclosures

Form 3160-3 (September 2001)			FORM APPRO OMB No. 1004 Expires January 3	-0136
UNITED STATES			5. Lease Serial No.	
DEPARTMENT OF THE IN BUREAU OF LAND MANA	UTU-74872			
			6. If Indian, Allottee or Ti	ribe Name
0 1 APPLICATION FOR PERMIT TO DE	RILL OR REENTER		N/A	
1a. Type of Work: DRILL REENTE	R		7. If Unit or CA Agreemen	t, Name and No.
7	-		N/A	
1b. Type of Well: 🗵 Oil Well 🖵 Gas Well 🖵 Other	Single Zone  Multi	ple Zone	8. Lease Name and Well N Federal 3-33-8-18	0.
2. Name of Operator	· · · · · · · · · · · · · · · · · · ·		9. API Well No.	
Newfield Production Company			10. Field and Pool, or Explo	7-3597
3a. Address	3b. Phone No. (include area code)			
Route #3 Box 3630, Myton UT 84052	(435) 646-3721	~	E'm+ niu si	d North
4. Location of Well (Report location clearly and in accordance with			E'M+ Niu Sol 11. Sec., T., R., M., or Blk.	and Survey or Area
At surface NE/NW 425' FNL 1594' FWL 593664	y 40.080613			
At proposed prod. zone 44370	134 -109.901456		NE/NW Sec. 33, T8	IS R18E
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
Approximatley 22.3 miles south of Myton, Utah			Uintah	UT
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacin	g Unit dedicated to this well	
property or lease line, ft.  (Also to nearest drig, unit line, if any) Approx. 425' f/lse, 4855' f/unit	677.36		40 Acres	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/	BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 965'	6500'		UTU0056	
**	22. Approximate date work will sta	<u> </u>		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	1st Quarter 2005	ще	23. Estimated duration  Approximately seven (7) days from spi	ud to rig salenge
4966.8' GL	24. Attachments		Approximately seven (7) days none sp	10 to fig females.
		. 1 1		
The following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be at	tached to thi	s torm:	
1. Well plat certified by a registered surveyor.		he operation	ns unless covered by an existi	ing bond on file (see
2. A Drilling Plan.	Item 20 above).  5. Operator certific	eation		
<ol><li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li></ol>	6. Such other site	specific infe	ormation and/or plans as may	be required by the
SOFO shall be filed with the appropriate Forest Service Office).	authorized office	er.		
25. Signature	Name (Printed/Typed) Lana Nebeker		Date	7:30-04
Title Production Clerk				
Approved by (Signature)	Name (Printed/Typed)		Date	
Deal Late Control	BRADLEY G. HIL	_L	10	-06-05
Title	environmental scient	IST III	<u> </u>	
	<u> </u>			
Application approval does not warrant or certify the the applicant holds leoperations thereon.	egal or equitable title to those rights in	the subject	lease which would entitle the a	applicant to conduct
Conditions of approval, if any, are attached.				

\*(Instructions on reverse)

Federal Approval of this Action is Necessary

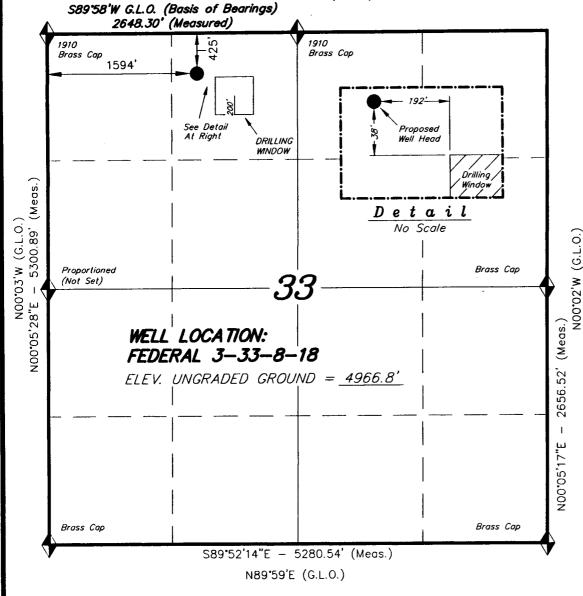
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED OCT 0 4 2004

DIV. OF OIL, GAS & MINING

## T8S, R18E, S.L.B.&M.

S89'58'W - 80.02 (G.L.O.)



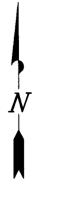


= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

#### INLAND PRODUCTION COMPANY

WELL LOCATION, FEDERAL 3-33-8-18, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 33, T8S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PER WAS PREPARED FROM FIELD NOTES OF ACTUME SURVEYS MADE BY ME OR UNDER MY SUPPRESIDENT THAT THE SAME ARE TRUE AND FORRECT TO THE BEST OF MY KNOWLEDGE AND FILER NO.189377

REGISTERED LAND SURVEYOR

TATE OF BEARING.

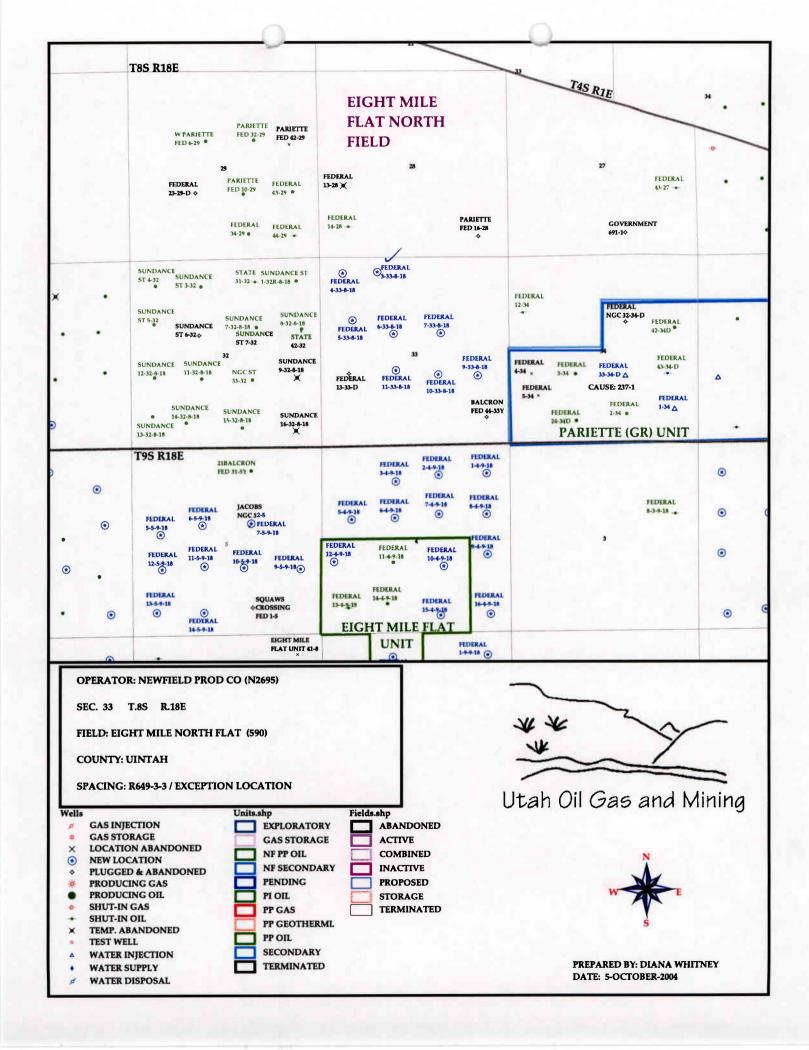
#### TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078. (435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: C.M.
DATE: 9-3-04	DRAFTED BY: F.T.M.
NOTES:	FILE #

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/04/2004	API NO. ASSIGNED: 43-047-35979
WELL NAME: FEDERAL 3-33-8-18  OPERATOR: NEWFIELD PRODUCTION ( N2695 )  CONTACT: LANA NEBEKER  PROPOSED LOCATION:  NENW 33 080S 180E  SURFACE: 0425 FNL 1594 FWL  BOTTOM: 0425 FNL 1594 FWL  UINTAH	PHONE NUMBER: 435-646-3721  INSPECT LOCATN BY: / /  Tech Review Initials Date  Engineering
8 MILE FLAT NORTH ( 590 )	Geology
LEASE TYPE: 1 - Federal	Surface
LEASE NUMBER: UTU-74872 SURFACE OWNER: 1 - Federal PROPOSED FORMATION: GRRV COALBED METHANE WELL? NO	LATITUDE: 40.08061 LONGITUDE: -109.9015
Plat    Plat     Bond: Fed[1] Ind[] Sta[] Fee[]     (No. UTU0056     No. UTU00	LOCATION AND SITING:  R649-2-3.  Unit R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells  R649-3-3. Exception Drilling Unit Board Cause No: Eff Date: Siting: R649-3-11. Directional Drill
SEP, Superal  STIPULATIONS:  1- Federal  2 Spacing Stip	





December 29, 2004

JAN 0 6 2005
DIV. OF OIL, GAS & MINING

Utah Division of Oil, Gas & Mining P.O. Box 145801 Attn: Diana Whitney Salt Lake City, Utah 84114-5801

> Re: Exception Locations: Federal 3-33-8-18 Federal 4-33-8-18; Uintah Cty., Utah Lease UTU-7:74872

Dear Ms. Whitney:

Pursuant to Rule R649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company, as contract Operator for Wildrose Resources Corporation, hereby requests exception locations for the drilling of the captioned wells. Rule R649-3-2 requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

Fed 4-33-8-18; 455' FNL, 627' FWL Sec 33-T8S-R18E; specifically, the location is 38' north of the drilling window. This location is requested due to extreme terrain conditions.

Federal 3-33-8-18; 425' FNL, 1594' FWL Sec 33-T8S-R18E; specifically the location is 36'north and 192' east of the drilling window. The exception location is requested due to extreme terrain conditions.

For your reference enclosed please find the attached plats which depict the proposed drillsite locations and illustrate the deviation from the drilling windows, in accordance with Rule R649-3-2.

Please note the locations are completely within Federal lease UTU-74732. The lease where the drillsites are located is owned 100% by Wildrose Resources Corporation. The offsetting acreage within a four hundred sixty foot (460') radius of the proposed locations is owned by Wildrose Resources Corporation, Thomas J. Lambert, Larry R. Simpson, Montana & Wyoming Oil Co., John R. Warne, John F. Jennings, Great Northern Drilling Co., Lambert Trust, dtd 9-13-91, Carrkel Oil Partnership, Harrington & Bibler, Inc., Western Independent Oil Co., AZ Oil, Inc. and Balsam Producing Properties, LLC. We have contacted these owners and their consent to these locations is attached.

If you have any questions or need additional information please contact me at (303)-382-4448. Thank you for your assistance in this matter.

Sin¢erely,

Laurie Deseau

**Division Order Analyst** 

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 4-33-8-18; Lease UTU-74872

Please be advised that Thomas Lambert does not have an objection to the proposed locations of the aforementioned wells.

By: Thomas Lamber THOMAS LAMBERT Print Name and Title

Date: 12/2/04

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 3-33-8-18; Lease UTU-74872

Please be advised that Larry R. Simpson does not have an objection to the proposed locations of the aforementioned wells.

By: Mary A Smith

Larry R. Simpson Print Name and Title •

Jan 3, 2005

\_TO

**Exception Locations** Federal 4-33-8-18; Lease UTU-74872 Federal 3-33-8-18; Lease UTU-74872

Please be advised that Montana & Wyoming Oil Co. does not have an objection to the proposed locations of the aforementioned wells.

By: K Chalson of

Print Name and Title

Date: 10-24.04

Exception Locations
Federal 4-33-8-18; Lease UTU-74872
Federal 3-33-8-18; Lease UTU-74872

Please be advised that John R. Warne does not have an objection to the proposed locations of the aforementioned wells.

By: Joh Ma

JOHN R. WARNE

Print Name and Title

Date:  $\frac{2}{5}$ 

Exception Locations
Federal 4-33-8-18; Lease UTU-74872
Federal 3-33-8-18; Lease UTU-74872

Please be advised that John F. Jennings does not have an objection to the proposed locations of the aforementioned wells.

Ву:\_\_\_*уе* 

Frint Name and Title

Date: 12/27/04

Exception Locations
Federal 4-33-8-18; Lease UTU-74872
Federal 5-33-8-18; Lease UTU-74872

Please be advised that Great Northern Drilling Co. does not have an objection to the proposed locations of the aforementioned wells.

Ciorai Galuska Agent

Date: 10-25-04

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 5-33-8-18; Lease UTU-74872 RECEIVED NOV 0.9 2004 INLAND RESOURCES

Please be advised that the Lambert Trust dtd 9/13/91 does not have an objection to the proposed locations of the aforementioned wells.

1 Mellogo -

Print Name and Title

Date: 11-2-0

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 5-33-8-18; Lease UTU-74872

Please be advised that Carrkel Oil Partnership does not have an objection to the proposed locations of the aforementioned wells.

By: Jany & SIMPSON

Print Name and Title

Date: 10-11-04

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 5-33-8-18; Lease UTU-74872

Please be advised that Harrington & Bibler, Inc. does not have an objection to the proposed locations of the aforementioned wells.

ARRY & SIMPSON

Print Name and Title

Date: 10 - 21 - 04

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 5-33-8-18; Lease UTU-74872

Please be advised that Western Independent Oil Company does not have an objection to the proposed locations of the aforementioned wells.

By: Mr. A. Churchy.

Print Name and Title

Date: /2/08/2004.

Exception Locations Federal 4-33-8-18; Lease UTU-74872 Federal 3-33-8-18; Lease UTU-74872

Please be advised that AZ Oil, Inc. does not have an objection to the proposed locations of the aforementioned wells.

JUBB

Date: 12/18/04

TO

Date: 10-26-04

Exception Locations
Federal 4-33-8-18; Lease UTU-74872
Federal \$3-33-8-18; Lease UTU-74872

Please be advised that Balsam Producing Properties, LLC does not have an objection to the proposed locations of the aforementioned wells.

By: K Chalsam

Robert C. Balsayn Tr. - Man Print Name and Title



State of Utah

Department of Natural Resources

ROBERT L. MORGAN Executive Director

Division of Oil, Gas & Mining

MARY ANN WRIGHT Acting Division Director OLENE S. WALKER

Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

January 6, 2005

Newfield Production Company Rt. #3, Box 3630 Myton, UT 84052

Re:

Federal 3-33-8-18 Well, 425' FNL, 1594' FWL, NE NW, Sec. 33, T. 8 South,

R. 18 East, Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35979.

Sincerely,

John R. Baza

Associate Director

pab Enclosures

cc:

**Uintah County Assessor** 

Bureau of Land Management, Vernal District Office



Operator:	<u>Newfie</u>	ld Production Company	
Well Name & Number	Federal	3-33-8-18	
API Number:	43-047-	35979	
Lease:	UTU-7	4872	
Location: NE NW	<b>Sec.</b> 33	T. 8 South	<b>R.</b> 18 East

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

## ~ RECEIVED

OCT 0 1 2004

### BLM VERNAL, UTAH

(September 2001)			OMB No. 1004 Expires January 3	1-0136 31, 2004
UNITED STATES		•	5. Lease Serial No.	
DEPARTMENT OF THE IN BUREAU OF LAND MANAG			UTU-74872	
APPLICATION FOR PERMIT TO DE		٠	6. If Indian, Allottee or T	ribe Name
la. Type of Work: DRILL REENTE	₹		7. If Unit or CA Agreemer	nt, Name and No.
Ib. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	Single Zone	iple Zone	8. Lease Name and Well N Federal 3-33-8-18	lo.
2. Name of Operator			9. API Well No.	
Newfield Production Company			42-047-3	
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explo	oratory
Route #3 Box 3630, Myton UT 84052	(435) 646-3721		11. Sec., T., R., M., or Blk.	and Survey or Area
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., 1., K., W., Or Dik.	and darvey or rives
At surface NE/NW 272' FNL 1594' FWL At proposed prod. zone			NE/NW Sec. 33, T	8S R18E
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
Approximatley 22.3 miles south of Myton, Utah			Uintah	UT
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spaci	ng Unit dedicated to this well	
property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 425' t/lse, 4855' t/lunit	677.36		40 Acres	
18. Distance from proposed location*	19. Proposed Depth	20. BLM	BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.  Approx. 965'	6500'		UTU0056	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	tart*	23. Estimated duration	
4966.8' GL	1st Quarter 2005		Approximately seven (7) days from s	pud to rig release.
	24. Attachments			
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas Order No.1, shall be a	ttached to th	is form:	
Well plat certified by a registered surveyor.	4. Bond to cover	the operation	ons unless covered by an exis	ting bond on file (see
2. A Drilling Plan.	Item'20 above) 5. Operator certifi			
<ol> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	6. Such other site authorized office	e specific in	formation and/or plans as ma	ay be required by the
25. Signature	Name (Printed/Typed) Lana Nebeker		Dat	9-30-04
Title Production Clerk				
Approved by (Signature)	Name (Printed/Typed)		Da	14/2005
Title Mineral Resources	Office			•
Application approval does not warrant or certify the the applicant holds operations thereon.  Conditions of approval, if any, are attached.	legal or equitable title to those rights	in the subjec	t lease which would entitle the	applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations as	it a crime for any person knowingly to any matter within its jurisdiction.	and willfully	to make to any department o	r agency of the United
*(Instructions on rayarsa)			DD	

\*(Instructions on reverse)

COMMITTERA

RECEIVED
DEC 2 0 2005

NOTICE OF APPROVAL

CONDITIONS OF A DEPROVAL ATTACHED

Als 1105



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078 (435) 781-4400



# CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO

Company: NEWFIELD PRODUCTION CO Location: NENW, Sec.33, T8S, R18E

Well No: Federal 3-33-8-18 Lease No: UTU-74872

API No: 43-047-35979 Agreement: N/A

Petroleum Engineer: Matt Baker Office: 435-781-4490 Cell: 435-828-4470 Petroleum Engineer: Michael Lee Office: 435-781-4432 Cell: 435-828-7875 Supervisory Petroleum Technician: Jamie Sparger Office: 435-781-4502 Cell: 435-828-3913 **Environmental Scientist:** Paul Buhler Office: 435-781-4475 Cell: 435-828-4029 **Environmental Scientist:** Karl Wright Office: 435-781-4484

Natural Resource Specialist: Holly Villa Office: 435-781-4404 Natural Resource Specialist: Melissa Hawk Office: 435-781-4476

Office Fax: (435) 781-4410 After hours message number: (435) 781-4513

#### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations.

#### **NOTIFICATION REQUIREMENTS**

Location Construction (Melissa Hawk ES / NRS)

Forty-Eight (48) hours prior to construction of location and access roads.

Location Completion (Melissa Hawk ES / NRS) Prior to moving on the drilling rig.

Spud Notice (Notify PE)

Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing (Notify Jamie Sparger)

Twenty-Four (24) hours prior to running casing and cementing all casing strings.

BOP & Related Equipment Tests (Notify Jamie Sparger)

Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice (Notify PE)

Within Five (5) business days after new well begins or production resumes after well has been off production for more

than ninety (90) days.

COAs: Page 2 of 6 Well: Federal 3-33-8-18

### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

-This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.

- -Due to the presence of Sclerocactus habitat in this area, a survey was conducted by Amanda Christensen (Plant and Wildlife Specialist) to determine if Sclerocactus are present. Since no cactus plants were found, the proposed well is clear from a T&E plant stand point.
- -The construction of the access road and location shall be monitored by a certified paleontologist and a report of the findings provided to the Vernal Field Office of the Bureau of Land Management.
- -4 to 6 inches of topsoil shall be stripped from the location and placed where it can most easily be accessed for interim reclamation. Once the well has been converted to water injection, the fill slopes shall be recontoured and the topsoil shall be spread over the entire well location. The well location shall then be seeded with crested wheatgrass (Variety Hycrest) at a 12 lb/acre rate (pure live seed). After seeded has been completed, an access road loop to the well head can be established. The reserve pit will be allowed to stay open until interim reclamation is completed so the entire area can be seeded at the same time. The interim seeding of the well location and reserve pit shall be done by either drilling the seed or by broadcasting the seed and dragging it with a spike tooth harrow.
- -The pipeline trench shall be dug in the borrow ditch of the road and the trench material side cast into the existing vegetation. Both the water line and the gas line shall be buried in the same trench. When backfilling the trenches, care should be taken to disturb as little of the vegetation as possible and thus allowing the existing plants to reestablish on their own, however, these disturbed areas should also be seeded with crested wheatgrass at the 12 lb/acre rate to ensure vegetation establishment and to keep invasive weeds to a minimum. All seeding of the pipelines shall be completed using a seed drill.
- -The temporary gas lines used during the temporary production phase shall be laid on the surface, and then removed once the well is turned to water injection.
- -No pipeline construction will be allowed outside of already disturbed areas when soils are muddy and rutting of soils becomes apparent from the use of vehicles. If rutting occurs, operations must cease until soils are dry or frozen.

COAs: Page 3 of 6 Well: Federal 3-33-8-18

#### DOWNHOLE CONDITIONS OF APPROVAL

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

1. Casing cementing operations for production casing shall return cement to surface.

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- 1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- 2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- 3. Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- 4. Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.

All BOPE components will be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.

BOP drills must be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

5. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.

COAs: Page 4 of 6 Well: Federal 3-33-8-18

6. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office must be obtained and notification given before resumption of operations.

7. Chronologic drilling progress reports must be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well must be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

8. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by the BLM, Vernal Field Office.

Please submit an electronic copy of all logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF other).

9. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.

COAs: Page 5 of 6 Well: Federal 3-33-8-18

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

- 10. Oil and gas meters will be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
- 11. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- 12. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location (1/41/4, Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
- 13. Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.

COAs: Page 6 of 6 Well: Federal 3-33-8-18

14. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production

- 15. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- 16. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

\_ ORM 3150-5 (June 1990)

#### DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM	APPROVED	

B	udget	Burea	iu No.	1004-0	13:

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SUNDRY NOTICES AND REPORTS ON WELLS	UTU-74872
Do not use this form for proposals to drill or to deepen or reentry a different reservo  Use "APPLICATION FOR PERMIT -" for such propo	oir. 6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation SUNDANCE
I. Type of Well  X Oil Gas Well Other	8. Well Name and No. FEDERAL 3-33-8-18  9. API Well No. 43-047-35979
2. Name of Operator  NEWFIELD PRODUCTION COMPANY  3. Address and Telephone No.	10. Field and Pool, or Exploratory Area  8 MILE FLAT NORTH
Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721  4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  425 FNL 1594 FWL NE/NW Section 33, T8S R18E	UINTAH COUNTY, UT.
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NO	OTICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION
X Notice of Intent  Abandonment Recompletion Plugging Back Casing Repair	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off
Final Abandonment Notice  Final Abandonment Notice  Altering Casing  Other Permit Extens	Conversion to Injection

Newfield Production Company requsts to extend the Permit to Drill this well for one year. The original approval date was 1/6/05 (expiration 1/6/06).

> Approved by the Utah Division of Oil, Gas and Mining

**RECEIVED** JAN 0 3 2006

- CAC & MINING

1		DIV. OF	OIL, GAS & WITHING
14. I hereby certify that the foreneing is the and correct Signed Mandie Crozier Title	Regulatory Specialist	Date	12/30/2005
CC: UTAH DOGM			
(This space for Federal or State office use)  Approved by Title		Date	
Conditions of approval, if any:			
CC: Utah DOGM			
		2. 1 C	

# Application for Permit to Drill Request for Permit Extension Validation (this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-35979  Well Name: Federal 3-33-8-18  Location: NE/NW Section 33, T8S R18E  Company Permit Issued to: Newfield Production Company Permit Issued: 1/6/2005	mpany
The undersigned as owner with legal rights to drill o above, hereby verifies that the information as submapproved application to drill, remains valid and does	itted in the previously
Following is a checklist of some items related to the verified.	application, which should be
If located on private land, has the ownership change agreement been updated? Yes□No□ ∩⊖	ed, if so, has the surface
Have any wells been drilled in the vicinity of the prothe spacing or siting requirements for this location?	
Has there been any unit or other agreements put in permitting or operation of this proposed well? Yes□	•
Have there been any changes to the access route in of-way, which could affect the proposed location? Y	- · · · · · · · · · · · · · · · · · · ·
Has the approved source of water for drilling change	ed? Yes□No☑
Have there been any physical changes to the surface which will require a change in plans from what was evaluation? Yes□No☑	
Is bonding still in place, which covers this proposed	well? Yes ☑ No □
Manchi avzin Signature	12/30/2005 Date
Title: Regulatory Specialist	
Representing: Newfield Production Company	RECEIVED JAN 0 3 2006

### **DIVISION OF OIL, GAS AND MINING**

### **SPUDDING INFORMATION**

Name of Comp	pany:	N	EWFIEL	D PR	<u>ODUCTIO</u>	N COMI	PANY	
Well Name:		F	EDERAL	<u> 3-33-</u>	-8-18			
Api No:								
Section 33								
Drilling Contr								
SPUDDED								
]	Date	02/02/	06					
,	Гіте	9:00 A	<u>M</u>					
	How	DRY			•			
Drilling wil	l Commen	ce:						
Reported by_		TRO	OY				<u> </u>	
Telephone #_								
Date02	/03/2006	Sign	ned		HD			

DIV. C. JIL, GAS & MINING

FEB

9 2006

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

**ENTITY ACTION FORM -FORM 6** 

ADDRESS: RT. 3 BOX 3430

**OPERATOR: NEWFIELD PRODUCTION COMPANY** 

MYTON, UT 84052

**OPERATOR ACCT. NO.** 

N2895

January 20, 2006

**Production Clark** 

02/09/2006 CURRENT ACIBON API AUSMER WELL MAME 3PUD EFFECTIME. YEAR HELL LOCATION 0002 COUNTY DATE EMITTY NO. ENTITY NO. 90 3C TP RG ONTE 2 9 06 **69: 64** 14844 **SUNDANCE FEDERAL 2-33-8-18** 02/06/06 99999 43-047-36024 NWNE 33 88 18E HATHIU **EFFECTIVE** SP LUD APT NUMBER WELL MALLE WELL LOCATION 4356463031 COUNTY DATE DATE ENTRY NO. 8 TP RG 30 06 **SUNDANCE FEDERAL 3-33-8-18** NENW 02/03/06 14844 43-047-35979 68 18E UINTAH WELL LOCATION EFFECTIVE ACTION CURRENT MEAN AT HUMBER MELL MAME SPUD: 712 COVERTY CODE EMITTY NO. GAINA 920" 8 SC. DATE 02/08/06 B 14844 **SUNDANCE FEDERAL 4-33-8-18** 88 18E UINTAH 99909 43-047-35977 MANNA 33 API JAMEER WELL NAME WELL LOCATION 8FUD EFFECTIVE ACTION CHREAT MEN CODE BALLEA HO EMPRITY NO. 90 **8**C T RG COMMITY DATE DATE INLAND 06 02/07/06 43-047-36231 FEDERAL 15-30-8-18 SE/SW 30 18E **UINTAH** EFFECTIVE APENCIALER WELL NAME WELL LOCATION SPUD CURRENT TP RG COUNTY DATE DATE CODE ENTITY NO. BHITY NO. 90 8C RE Ш erun. EFFECTIVE **WELL NAME** MELL FOCKLICH API NUMBER CUMMENT IB1 DATE DATE 112 RG COUNTY ac EVINY NO ESTIT NO. 99 99999 WELL I COMMENTE: ACTION COCKS (See Instructions on best of form) A- Establish man settly for new well (allegforms if only) Klas Katiba 8 - Add now year to extering entity because or unif wells C - Re-antige well from one exhibite entity in another entiting entity

NOTE: Use GOMMENT section to explain why each Aution Code was selected.

D - Re-eatign well from one unlading untily in a curv eatify

E- Other (topids in severals section)

FORM 3160-5 (September 2001)

## UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter abandoned well. Use Form 3160-3 (APD) for such proposals to drill or to re-enter the proposal store and the proposal store and the proposal store and the proposal store and the proposal is to deepen directionally or recomplete inorzentally, give subsurface locations and measured water is produced water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4 approved surface locations and measured water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4 approved surface disposal facilities.	6. If Indian, Allottee or Tribe Name.  7. If Unit or CA/Agreement, Name and/or No. SUNDANCE UNIT  8. Well Name and No. FEDERAL 3-33-8-18 9. API Well No. 4304735979 10. Field and Pool, or Exploratory Area Monument Butte 11. County or Parish, State Uintah,UT  TENATURE OF NOTICE, OR OTHER DATA  TYPE OF ACTION  Production(Start/Resume) Water Shut-Off Reclamation Well Integrity ion Recomplete Other  Temporarily Abandon Water Disposal  starting date of any proposed work and approximate duration thereof. If the ared and true vertical depths of all pertinent markers and zones. Attach the Bond of subsequent reports shall be filed within 30 days following completion of the erval, a Form 3160-4 shall be filed once testing has been completed. Final completed, and the operator has determined that the site is ready for final  water meets quality guidelines, it is transported to the yeompany or contract trucks. Subsequently, the
SUBMIT IN TRIPLICATE - Other Instructions on reve  Type of Well Oil Well Gas Well Other  Name of Operator NEWFIELD PRODUCTION COMPANY  A Address Route 3 Box 3630 Myton, UT 84052  Location of Well (Footage, Sec., T., R., M., or Survey Description) 272 FNL 1594 FWL NE/NW Section 33 T8S R18E  12. CHECK APPROPRIATE BOX(ES) TO INIDICAT  TYPE OF SUBMISSION  Notice of Intent Subsequent Report Casing Repair Casing Repair Convert to Injector Plug Back  Describe Proposed or Completed Operation (clearly state all pertinent details, uncluding estimated proposal is to deepen directionally or recomplete horizontally, give subsurface locations and meass under which the work will be performed or provide the Bond No. on file with BLM/BIA Require involved operations. If the operation results in a multiple completion or recompletion in a new int Abandonment Notices shall be filed only after all requirements, including reclamation, have been dispection.)  Formation water is produced to a steel storage tank. If the production Ashley, Monument Butte, Jonah, and Beluga water injection facilities by produced water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4	7. If Unit or CA/Agreement, Name and/or No.  SUNDANCE UNIT  8. Well Name and No. FEDERAL 3-33-8-18  9. API Well No. 4304735979  10. Field and Pool, or Exploratory Area Monument Butte  11. County or Parish, State Uintah,UT  TE NATURE OF NOTICE, OR OTHER DATA  TYPE OF ACTION  Production(Start/Resume) Water Shut-Off Reclamation Well Integrity ion Recomplete Other  Temporarily Abandon Water Disposal  starting date of any proposed work and approximate duration thereof. If the ordered and true vertical depths of all pertinent markers and zones. Attach the Bond of subsequent reports shall be filed within 30 days following completion of the erval, a Form 3160-4 shall be filed once testing has been completed. Final completed, and the operator has determined that the site is ready for final  water meets quality guidelines, it is transported to the y company or contract trucks. Subsequently, the
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Subsequent Report    Casing Repair   New Construct     Change Plans   Plug & Abando   Final Abandonment Notice   Convert to Injector   Plug Back     S. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated proposal is to deepen directionally or recomplete horizontally, give subsurface locations and meast under which the work will be performed or provide the Bond No. on file with BLM/BIA Require involved operations. If the operation results in a multiple completion or recompletion in a new int Abandonment Notices shall be filed only after all requirements, including reclamation, have been inspection.)  Formation water is produced to a steel storage tank. If the production of Ashley, Monument Butte, Jonah, and Beluga water injection facilities by produced water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4	ion Recomplete Other  Temporarily Abandon  Water Disposal  starting date of any proposed work and approximate duration thereof. If the ured and true vertical depths of all pertinent markers and zones. Attach the Bond of subsequent reports shall be filed within 30 days following completion of the erval, a Form 3160-4 shall be filed once testing has been completed. Final completed, and the operator has determined that the site is ready for final  water meets quality guidelines, it is transported to the y company or contract trucks. Subsequently, the
Change Plans Plug & Abando Pinal Abandonment Notice Convert to Injector Plug Back  3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measureder which the work will be performed or provide the Bond No. on file with BLM/BIA. Require involved operations. If the operation results in a multiple completion or recompletion in a new int Abandonment Notices shall be filed only after all requirements, including reclamation, have been disspection.)  Formation water is produced to a steel storage tank. If the production vashley, Monument Butte, Jonah, and Beluga water injection facilities by produced water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4	starting date of any proposed work and approximate duration thereof. If the used and true vertical depths of all pertinent markers and zones. Attach the Bond of subsequent reports shall be filed within 30 days following completion of the erval, a Form 3160-4 shall be filed once testing has been completed. Final completed, and the operator has determined that the site is ready for final water meets quality guidelines, it is transported to the y company or contract trucks. Subsequently, the
Final Abandonment Notice Convert to Injector Plug Back  5. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measureder which the work will be performed or provide the Bond No. on file with BLM/BIA Require involved operations. If the operation results in a multiple completion or recompletion in a new int Abandonment Notices shall be filed only after all requirements, including reclamation, have been disspection.)  Formation water is produced to a steel storage tank. If the production washley, Monument Butte, Jonah, and Beluga water injection facilities by produced water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4	Starting date of any proposed work and approximate duration thereof. If the need and true ventical depths of all pertinent markers and zones. Attach the Bond of subsequent reports shall be filed within 30 days following completion of the erval, a Form 3160-4 shall be filed once testing has been completed. Final completed, and the operator has determined that the site is ready for final water meets quality guidelines, it is transported to the y company or contract trucks. Subsequently, the
S. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measuander which the work will be performed or provide the Bond No. on file with BLM/BIA. Require involved operations. If the operation results in a multiple completion or recompletion in a new introduced operation. If the operation results in a multiple completion or recompletion in a new introduced operation. have been dispection.)  Formation water is produced to a steel storage tank. If the production washley, Monument Butte, Jonah, and Beluga water injection facilities by produced water is injected into approved Class II wells to enhance New Water not meeting quality criteria, is disposed at Newfield's Pariette #4	starting date of any proposed work and approximate duration thereof. If the ured and true vertical depths of all pertinent markers and zones. Attach the Bond of subsequent reports shall be filled within 30 days following completion of the erval, a Form 3160-4 shall be filled once testing has been completed. Final completed, and the operator has determined that the site is ready for final water meets quality guidelines, it is transported to the y company or contract trucks. Subsequently, the
Accepted by Utah Division Oil, Gas and MECORE	n ot Mining
hereby certify that the foregoing is true and correct  Title	
Name (Printed: Typed) Mandie Crozier Regulator	y Specialist
Signature Date 03/27/20	106
THIS SPACE FOR FEDERAL C	DR STATE OFFICE USE
Approved by	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or criffy that the applicant holds legal or equitable title to those rights in the subject lease	Title Date

FORM 3160-5 (September 2001)

(Instructions on reverse)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

Lease Serial No.

SUNDRY	NOTICES AND REPO	U1U/48/2				
Do not use to abandoned we	his form for proposals to ell. Use Form 3160-3 (AP	6. If Indian, Allott	6. If Indian, Allottee or Tribe Name.			
SURMET IN T	RIPLICATE - Other Inst	tructions on reverse s	ide	7. If Unit or CA/A	agreement, Name and/or No.	
	Property and the second	2000		SUNDANCE UI	NIT	
1. Type of Well	7			8. Well Name and	l No	
X Oil Well Gas Well  2. Name of Operator	Other			FEDERAL 3-33		
NEWFIELD PRODUCTION CO	MPANY		<u> </u>	9. API Well No.		
3a. Address Route 3 Box 3630		3b. Phone No. (include ar	e code)	4304735979	l, or Exploratory Area	
Myton, UT 84052 4. Location of Well (Footage, Sec	T. B. M. or Suman Description	435.646.3721		Monument Butt		
272 FNL 1594 FWL	., 1., R., M., Of Survey Description	··· <i>y</i>		11. County or Par	ish, State	
NE/NW Section 33 T8S R1	8E			Uintah,UT		
10 OUECI	C APPROPRIATE BOX(E	S) TO INIDICATE N	ATURE OF N	OTICE, OR OT	THER DATA	
	APPROPRIATE BOXIL		PE OF ACTION			
TYPE OF SUBMISSION						
Notice of Intent	Acidize	Deepen	_	on(Start/Resume)	Water Shut-Off	
Notice of filteric	Alter Casing	Fracture Treat	Reclamate		Well Integrity  Other	
X Subsequent Report	Casing Repair	New Construction	<del></del>	rily Abandon	Spud Notice	
Final Abandonment Notice	Change Plans Convert to Injector	Plug & Abandon Plug Back	Water Di	-	Space 11 of the space 11 of th	
csan. Set @ 312.48'/ KB	NS # 1.Spud well @ 9:00 / On 2/5/2006 cement with eturn 5 bbls cement to pit.	160 SKS OF Class G W	' hole with air r ' 2% CaCL2 +	mist. TIH W/ 7 J 1/4# sk Cello- I	t's 8 5/8" J-55 24 # Flake Mixed @ 15.8	
I hereby certify that the foregoing	is true and correct	Title				
Name (Printed/ Typed) Floyd Mitchell		Drilling Super	/isor			
Signature FOA	n the or	Date 02/08/2006				
aet 1	THIS SPACE B	FOR FEDERAL OR S	TATE OFFI	CE USE	Terr to the second	
Approved by		Title	e	D	ate	
Conditions of approval, if any, are attacertify that the applicant holds legal or which would entitle the applicant to or	r equitable title to those rights in the sonduct operations thereon.	ubject lease Off				
Title 19 LLS C. Section 1001 and Title	43 U.S.C. Section 1212, make it a cr	rime for any person knowingly a	nd willfully to make	to any department or a	agency of the United	
States any false, fictitious and fraudul	ent statements or representations as to	any matter within its jurisdiction	RE	CEIVED		

#### **NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

			8 5/8	CASING SET	AT	312.48			
LAST CASIN	IG 8 5/8"	set @	312.48		OPERATOR	₹	Newfield F	Production Co	ompany
DATUM				£*		-			
DATUM TO		ASING				SPECT			
		AD FLANGE				 *OR & RIG		NDSI NS # 1	
TD DRILLER	310'	LOGGE	======================================	<del></del>				<u>-</u>	
HOLE SIZE	12 1/4	<del></del>		<del></del>					
	-								
LOG OF CAS	SING STRIN	IG:				,	· ·		
PIECES	OD	ITEM - I	MAKE - DESCI	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		Shoe	Joint 43.12'						
		WHI - 92 cs	g head				8rd	Α	0.95
7	8 5/8"	Maverick ST	&C csg		24#	J-55	8rd	Α	300.63
			GUIDE	shoe			8rd	Α	0.9
CASING INV	ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF ST	RING		302.48
TOTAL LENG	GTH OF ST	RING	302.48	7	LESS CUT	OFF PIECE			2
LESS NON (	CSG. ITEMS		1.85		PLUS DATU	JM TO T/CU	TOFF CSG		12
PLUS FULL	JTS. LEFT (	DUT	0		CASING SE	T DEPTH			312.48
	TOTAL		300.63	7	۱				
TOTAL CSG	. DEL. (W/O	THRDS)	300.63	7	COMPAF	RE			
TIMING			1ST STAGE						
BEGIN RUN	CSG.	Spud	2/3/2006	9:00 AM	GOOD CIRC	C THRU JOB	B	Yes	
CSG. IN HO	LE		2/4/2006	3:00 PM	Bbls CMT C	IRC TO SUR	RFACE	5	
BEGIN CIRC	;		2/5/2006	4:20 PM	RECIPROC	ATED PIPE I	FOR	<u>N</u> /A	
BEGIN PUM	P CMT		2/5/2006	4:43 PM			-		
BEGIN DSPI	CMT		2/5/2006	4:53 PM	BUMPED P	LUG TO _		500	PSI
PLUG DOW	νν		2/5/2006	5:03 PM					
CEMENT US	SED			CEMENT CO	MPANY-	B. J.		<del></del>	
STAGE	# SX			CEMENT TYP	PE & ADDITIN	/ES			
1	160	Class "G" w	/ 2% CaCL2 + <sup>-</sup>	1/4#/sk Cello-F	lake mixed @	) 15.8 ppg 1.	17 cf/sk yield	1	
			<del></del>		10-77-				
	<u> </u>								
CENTRALIZ	ER & SCRA	TCHER PLAC	CEMENT			SHOW MAK	E & SPACIN	IG	
Centralizers	s - Middle f	irst, top seco	ond & third for	3					
	·····								

DATE \_\_\_\_\_2/5/2006

COMPANY REPRESENTATIVE Troy Zufelt

FORM 3160-5 (September 2001)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM AI	PPROVED
OMB No.	1004-0135
Expires Janu	uary 31.2004

SUNDRY N	OTICES AND	REPORTS (	ON WELLS
Do not use this	form for propo	osals to drill o	r to re-enter an
abandoned well.	Use Form 316	0-3 (APD) for	such proposals.

If Indian	Allotton or Triba Name	
UTU7487	'2	
Lease Se	arar NO.	

SUNDRY	NOTICES AND REPORTS	ON WELLS	<u>.</u>	UTU74872	·
abandoned w	his form for proposals to drill o ell. Use Form 3160-3 (APD) for	6	. If Indian, Allott	ee or Tribe Name.	
	RIPLICATE - Other Instruction	ons on reverse side	7	. If Unit or CA/A SUNDANCE UN	greement, Name and/or No.
1. Type of Well Gas Well	Other		- 8	. Well Name and	No.
2. Name of Operator NEWFIELD PRODUCTION CO	MPANY			FEDERAL 3-33	-8-18
3a. Address Route 3 Box 3630		none No. (include are code,		API Well No. 4304735979	
Myton, UT 84052		46.3721	1	0. Field and Pool Monument Butte	, or Exploratory Area
272 FNL 1594 FWL	., T., R., M., or Survey Description)		1	1. County or Pari	
NE/NW Section 33 T8S R1	8E			Uintah,UT	
12. CHECK	( APPROPRIATE BOX(ES) TO	INIDICATE NATU	RE OF NO	ΓICE. OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Notice of Intent  Subsequent Report  Final Abandonment Notice	Alter Casing F Casing Repair N Change Plans F	Peepen	Production( Reclamation Recomplete Temporarily Water Dispo	Abandon	Water Shut-Off Well Integrity Other Weekly Status Report
8.625 csgn to 1,500 psi. Ve out cement & shoe. Drill a Dig/SP/GR log's TD to surf. KB. Cement with 375 sks c bbls cement returned to pit	g # 14. Set all equipment. Pressuernal BLM field, & Roosevelt DOG 7.875 hole with fresh water to a dace. PU & TIH with Guide shoe, sement mixed @ 11.0 ppg & 3.43. Nipple down Bop's. Drop slips @	GM office was notifed lepth of 6270'. Lay dove shoe jt, float collar, 14 yld. Then 475 sks cei	of test. PU wn drill strir 7 jt's of 5.5 ment mixed	BHA and tag on the second BHA. Ope J-55, 15.5# cag    @ 14.4 ppg 8	cement @ 258'. Drill en hole log w/ sgn. Set @ 6257' / & 1.24 yld. With 32
I hereby certify that the foregoing is Name (Printed/Typed) Alvin Nielsen Signature	true and correct	Title Drilling Foreman Date			
alu /hl	THIS SPACE FOR FE	02/28/2006	· VEGAGE	Fier	
	HIS SPACE FUR FE	DEKAL UK SIATE	OFFICE	USE	
certify that the applicant holds legal or ed	ned. Approval of this notice does not warrant of quitable title to those rights in the subject lease			Date	е
	duct operations thereon.  3 U.S.C. Section 1212, make it a crime for any tatements or representations as to any matter		y to make to an	y department or age	ency of the United

(Instructions on reverse)

RECEIVED

MAR 0 3 2006

#### NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			5 1/2"	CASING SET	AT	6257.14			
					Fit clir @	6215.34			
LAST CASIN	IG <u>8 5/8"</u>	SET /	312'		OPERATOR	₹	Newfield F	Production (	Company
DATUM	12' KB				WELL	Federal 3-	33-8-18		·
DATUM TO	CUT OFF C	ASING _	12'	<del></del>	FIELD/PRO	SPECT	Monumen	t Butte	
DATUM TO	BRADENHE	AD FLANGE	<del></del>		CONTRACT	TOR & RIG#		Union #14	
TD DRILLER	6270	LOGG	6263						
HOLE SIZE	7 7/8"		··· · · · · · · · · · · · · · · · · ·	···-					
							<b></b>		
LOG OF CA	SING STRIN	IG:	.,.						*-
PIECES	OD	ITEM -	MAKE - DESCI	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
· · · · · · · · · · · · · · · · · · ·	ļ	Landing Jt							14
		Short jt	4439' (5.88')	· · · · · · · · · · · · · · · ·					
147	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	Α	6201.34
		Float collar							0.6
1	5 1/2"	ETC LT&C	csg		15.5#	J-55	8rd	Α	42.55
<u> </u>			GUIDE	shoe			8rd	Α	0.65
CASING INV	ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF 6TF	RING		6259.14
TOTAL LENG	GTH OF STI	RING	6243.89	148	LESS CUT	OFF PIECE			14
LESS NON C	CSG. ITEMS		15.25		PLUS DATU	IM TO T/CUT	OFF CSG	,	12
PLUS FULL	JTS. LEFT C	DUT	127.48	3	CASING SE	T DEPTH			6257.14
	TOTAL		6371.37	151	1				
TOTAL CSG	. DEL. (W/O	THRDS)	6371.37	151	COMPAR	RE			
TIMING			1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		2/27/2006	7:00 AM	GOOD CIRC	THRU JOB		YES	
CSG. IN HOI	LE		2/27/2006	1:30 PM	Bbls CMT C	IRC TO SUR	FACE	32	
BEGIN CIRC	;		2/27/2006	1:50 PM	RECIPROC	ATED PIPE F	FOR	THRUSTROK	<u>(E NA</u>
BEGIN PUM	P CMT		2/27/2006	3:36 PM	DID BACK F	PRES. VALVE	EHOLD? _	YES	
BEGIN DSPL	CMT		2/27/2006	4:38 PM	BUMPED PI	LUG TO		2310	PSI
PLUG DOW	٧	·	2/27/2006	5:04 PM					
CEMENT US	ED			CEMENT CON	IPANY-	B. J.			
STAGE	# SX			CEMENT TYP	E & ADDITIN	/ES			
1	375	Premlite II w	/ 10% gel + 3 9	% KCL, 3#'s /sk	CSE + 2# sl	k/kolseal + 1/	4#'s/sk Cello	Flake	
		mixed @ 11	.0 ppg W / 3.43	cf/sk yield					
2	475	50/50 poz W	// 2% Gel + 3%	KCL, .5%EC1,	1/4# sk C.F.	2% gel. 3% S	SM mixed @	14.4 ppg W/ 1	.24 YLD
CENTRALIZI	ER & SCRA	TCHER PLAC	CEMENT	<b>₩1.</b>		SHOW MAK	E & SPACIN	IG	
Centralizers	s - Middle fi	rst, top seco	ond & third. Th	nen every thir	d collar for	a total of 20	•	******	
COMPANY F	REPRESENT	TATIVE	Alvin Nielse	<u>n</u>			DATE	2/28/2006	

FORM 3160-5 (September 2001)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

· · · · · · · · · · · · · · · · · · ·	BUREAU OF LAND MA	NAGEMENT	5.	Lease Serial N	0.
SUNDR	NOTICES AND REI		UTU74872		
	his form for proposals ell. Use Form 3160-3 (	. 6.	If Indian, Allot	tee or Tribe Name.	
	RIPLICATE - Other I	instructions on reverse sig		. If Unit or CA/A SUNDANCE U	agreement, Name and/or No.
l. Type of Well  Oil Well Gas Well	Other		8.	Well Name and	l No.
. Name of Operator NEWFIELD PRODUCTION CO	DAMY ANIV		1	FEDERAL 3-33	-8-18
a. Address Route 3 Box 3630	TVII / YII V I	3b. Phone No. (include are		API Well No. 4304735979	
Myton, UT 84052		435.646.3721	1	0. Field and Poo	l, or Exploratory Area
Location of Well (Footage, Sec 272 FNL 1594 FWL	:., T., R., M., or Survey Descr	iption)	<u> </u>	Monument Butt 1. County or Par	
NE/NW Section 33 T8S R	.8E			Uintah,UT	
12. CHECK	C APPROPRIATE BOX	X(ES) TO INIDICATE NA	TURE OF NOT	TICE, OR OT	THER DATA
TYPE OF SUBMISSION		TYPE	E OF ACTION		
V Notice of Intent	Acidize -	Deepen	<u></u>	Start/Resume)	☐ Water Shut-Off
_	Alter Casing Casing Repair	Fracture Treat  New Construction	Reclamation Recomplete		Well Integrity
Subsequent Report	Casing Repair  Change Plans	Plug & Abandon	Temporarily	Abandon	Other Variance
Final Abandonment Notice	Convert to Injector	Plug Back	Water Dispo		
separator to maximize gas  Newfield is requesting a va	s separation and sales. ariance for safety reason nief hatches are open. V	(20 mcfpd). The majority of . ns. Crude oil production tan while gauging tanks, lease o	iks equipped wit	th back press	ure devices will emit
4	12-06 #3	Oi Date: By:	Accepted b Utah Divisi I, Gas and	y the on of Mining	Federal Approval Of T Action Is Necessar
hereby certify that the foregoing	is true and correct	Title		111.737	
Name (Printed/Typed) Mandie Crozier		Regulatory Specia	alist		
ignature / towl	Con	Date 03/27/2006			
y i giville	THIS SPACE	FOR FEDERAL OR ST	ATE OFFICE	USE	
		TO 1		Da	102
Approved by Conditions of approval, if any, are attac	thed. Approval of this notice doe	S not warrant or		Da	
ertify that the applicant holds legal or hich would entitle the applicant to co	equitable title to those rights in th				
itle 18 U.S.C. Section 1001 and Title	43 U.S.C. Section 1212, make 0.7	orime for any person knowingly and w	willfully to make to an	y department or ag	tency of the United
States any false, ficultions and frauchile	it statements or representations as	s to any matter within its jurisdiction			

FORM 3160-5 (September 2001)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM API	PROVED
OMB No. 1	004-0135
Expires Janua	ıry 31,2004

Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

UTU74872

abandoned w	ell. Use Form 3160-3 (AF	PD) for such	proposals.		6.	If Indian, Allo	ttee or	Tribe Name.
	RIPLICATE - Other Ins	tructions on	reverse sid	e		If Unit or CA/	_	nent, Name and/or No.
1. Type of Well	<b>7</b> od				-	NV II NV	137.	
Oil Well Gas Well  Name of Operator	Other					Well Name an FEDERAL 3-3		
NEWFIELD PRODUCTION CO	MPANY				<u></u>	API Well No.		
3a. Address Route 3 Box 3630		1	. (include are d	code)		1304735979		
Myton, UT 84052	T D 14 G D	435.646.3721				Field and Poo Monument But		xploratory Area
4. Location of Well (Footage, Sec 272 FNL 1594 FWL	., I., R., M., or Survey Description	on)				. County or Pa		rate
NE/NW Section 33 T8S R1	8E					-	, 0	
						Uintah,UT		
	APPROPRIATE BOX(E	S) TO INID				ICE, OR O	THER	RDATA
TYPE OF SUBMISSION			TYPE	OF A	ACTION			
☐ Notice of Intent  ☑ Subsequent Report	Acidize Alter Casing Casing Repair	Deepen Fracture New Co	Treat nstruction		Reclamation Recomplete	tart/Resume)		Water Shut-Off Well Integrity Other
Final Abandonment Notice	Change Plans Convert to Injector	Plug & A		_	Temporarily Water Dispos			Weekly Status Report
Status report for time period Subject well had completion the well. A cement bond lower with 20/40 mesh sand. Per #3(4547'-4570'); Stage #4( used between stages. Fract plugs were drilled out and was run in well on sucker re	n procedures intiated in the was run and a total of for forated intervals are as fol 4481'-4486'),(4460'-4465') is were flowed back througwell was cleaned to 6213', ods. Well was placed on p	ur Green Riviows: Stage and the All perforation of the Control of	er intervals v #1 (5878'-58 ons, were 4 service rig v swab tested rod pump o	were 96'); JSPI vas m I for s	perforated Stage #2 ( F. Compos noved over sand clean	and hydrau 5270'-5284' ite flow-thro the well on	lically ); Stag ugh fr 03-22	fracture treated ge rac plugs were 2-2006. Bridge
I hereby certify that the foregoing is	s true and correct	Title	:					
Name (Printed/Typed) Lana Nebeker	() 1	Pro	duction Clerk					
Signature 1	Je VII	Date 04	/10/2006					
77	THIS SPACE FO	OR FEDER	AL OR STA	ATE.	OFFICE	USE		
			T				+0	
Approved by  Conditions of approval, if any, are attack certify that the applicant holds legal or e which would entitle the applicant to con	quitable title to those rights in the sul duct operations thereon.	bject lease	Title Office				ite	
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious and fraudulen	3 U.S.C. Section 1212, make it a crir	ne for any person my matter within i	knowingly and w ts jurisdiction	illfully	to make to any	department or a	gency o	RECEIVED

(Instructions on reverse)

APR 1 2 2006

SUBMIT IN DUPLICATE\* FORM APPROVED

(See other instructions ons OMB NO. 1004-0137

Expires: February 28, 1995

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

reverse side) 5. LEASE DESIGNATION AND SERIAL NO.

	•	BURE	AU OF	LAND	MANAGEMI	ENT					74872
WELL	COMPLI	ETION	OR R	ECOM	IPLETION	REPORT A	ND LOG	•	6. IF INDIAN.	_	OR TRIBE NAME IA
Ia. TYPE OF WORK									7. UNIT AGRE	EMENT NA	ME
		OIL WELL	X	GAS WELL	DRY	Other				Sundar	nce Unit
1b. TYPE OF WELL		WELL [		WELL		<del></del>					
	_				г— г				8. FARM OR L	EASE NAM	E. WELL NO.
NEW X	WORK OVER	DEEPEN		PLUG BACK	DIFF RESVR.	Other				ederal	3-33-8-18
2. NAME OF OPERATOR					<u> </u>				9, WELL NO.		
		Ne	wfield E	Explorat	tion Compan	у			10. FIELD AND		7-35979
3. ADDRESS AND TELEP	HONE NO. 1.	401 17th	St Su	ite 1000	Denver, CO	3 80202			10. HELD AND		/lile Flat
4. LOCATION OF WE	LL (Report loca	tions clearly a	nd in accor	dance with	any State requireme	ents.*)					OCK AND SURVEY
At Surface	` '	425'	FNL & 1	594' FWL	. (NE/NW) Sec.	33, T8S, R18E			OR AREA	00 -	F00 D40E
At top prod. Interval rep	orted below								S	ec. 33,	r8S, R18E
				<u> </u>		DATE ISSUED			12. COUNTY OF	DADISH	13. STATE
At total depth				14. API NO. <b>43</b> .	-047-35979	DATE ISSUEL			Uin		UT
15. DATE SPUDDED	16. DATE T.D. R		17. DA	TE COMPL. (	(Ready to prod.)		DF. RKB. RT. GR. E	TC.)*	4070! KE		19. ELEV. CASINGHEAD
2/3/06	<u> </u>	6/06			24/06		7' GL 23. INTERVALS	POT	4979' KE	·1	CABLE TOOLS
20. TOTAL DEPTH. MD &	. TVD	21. PLUG BAC	K T.D., MD	& IVD	22. IF MULTIP HOW MAN		DRILLED BY		AKT TOOLS	1	(71002 1002)
6270'			6213'				>		X		
24. PRODUCING INTERV	AL(S), OF THIS C	OMPLETION	тор. вотт	OM, NAME (	(MD AND TVD)*						25. WAS DIRECTIONAL SURVEY MADE
			_	Green I	River, 4460	)'-5896'					No
THE PART OF FORDING AND	OTHER LOCE B	1.181		<del></del>				···			27. WAS WELL CORED
26. TYPE ELECTRIC AND <b>Dual Induction</b>	Guard. SF	P. Compe	nsated	Densit	y, Compensa	ated Neutron,	GR, Caliper	, Ceme	ent Bond I	Log	No
23.						oort all strings set in	well)				
CASING SIZE/C	GRADE	WEIGHT.		DEP	TH SET (MD)	HOLE SIZE 12-1/4"			MENTING RECO		AMOUNT PULLED
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5-1/2 - 3	1-00	15.3	J#F	<u> </u>	0237	1-110	370 327 1011	into it ari	u 110 0x 00.		
29.		LINI	ER RECO	RD			30.		TUBING REC	ORD	
SIZE	TOP (			OM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE		DEPTH SET (ME	))	PACKER SET (MD)
							2-7/8"		EOT @ 5974'		TA @ 5846'
					<u> </u>		ACID, SHOT	ED + COT		T COUE	
31. PERFORATION REC	ORD (Interval, si ERVAL	ze and number)		ZE	SPF/NUMBEI	R DEPTH INT	ERVAL (MD)	, FRACTI	AMOUNT AND	KIND OF	MATERIAL USED
		878'-5896'		6"	4/72		-5896'	Frac	w/ 65,747#	20/40 sa	nd in 533 bbls fluid
<del>,</del>		270'-5284'		3"	4/56	5270'	-5284'				nd in 492 bbls fluid
		547'-4570'		3"	4/92	4547'	-4570'	1			nd in 700 bbls fluid
(GB2) 44	460'-4465', 4		.4	3"	4/40	4460'	-4486'	Frac	w/ 26,177#	20/40 sa	nd in 324 bbls fluid
								<u> </u>			
								ļ	<u> </u>		
								ļ			
					1	LICTION .		<u> </u>			
33.* DATE FIRST PRODUCTION	N.	BRODECTIO	N A DETERME	A (Flavino, en	s lift, pumpingsize an	JCTION d type of nump)				WELL ST	ATUS (Producing or shut-in)
3/24/0		rkobecho		2-1/2" x	1-1/2" x 14'	RHAC SM PIL	inger Pump			Pl	RODUCING
DATE OF TEST		RS TESTED	CHOK	E SIZE	PROD'N, FOR TEST PERIOD	OILBBLS.	GASMCF.	WATE	RBB1		GAS-OII, RATIO
30 day av	e				>	67	10	- 1	77		149
FLOW, TUBING PRESS.		ING PRESSURI		-LATED	OII -BB1	GASMCF.		WATER	BB1 (	M. GRAVII	Y-API (CORR.)
			24-1101	TRIRATE		ı		ŀ			
		1	l	>					TEST WITNESS	SED BY	
34. DISPOSITION OF GAS	(Sold, used for fu	et, vented, etc.)	Sold	& Used	for Fuel						-11/
35. LIST OF A FFACTIMES	NTS					, , , , , , , , , , , , , , , , , , , ,				ייייו	EIVED
	_1									MAY n	1 2000
36. Thereby certify that	torgoing a	nd atta ned in	irmation i	s complete :	and correct as deteri	mined from all availab	ole records	ciotic+	•		1/27/2006
	lan	the C	10	Xn		P63	Hatery Spe	URUSI.			****

veries); FORMATION	ТОР	воттом	DESCRIPTION, CONTENTS, ETC.		TOP		
TORMATION	101	воттом	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTI	
			Well Name Federal 3-33-8-18	Garden Gulch Mkr Garden Gulch 1			
				Garden Gulch 2	4308'		
				Point 3 Mkr	4652'		
		]		X Mkr Y-Mkr	4823' 4860'		
				Douglas Creek Mkr BiCarbonate Mkr B Limestone Mkr	4996' 5198'		
				Castle Peak	5779'		
				Basal Carbonate Total Depth (LOGGERS	6172' 6263'		



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 1595 WYNKOOP STREET DENVER, CO 80202-1129 http://www.epa.gov/region8

NOV 2 0 2008

Ref: 8P-W-GW

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Eric Sundberg Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202 RECEIVED
DEC 0 2 2008

DIV. OF OIL, GAS & MINING

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

8S 18E 33

Re: Final Permit w/ AOR Corrective Action EPA UIC Permit UT21101-07423

Well: Federal 3-33-8-18 Uintah County, Utah API No.: 43-047-35979

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 3-33-8-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep\_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely, -

Stephen S. Tuber

Assistant Regional Administrator, Constitution Office of Partnerships and Regulatory Assistance

deldorhi

Oil, Gas and Meny

enclosure:

Final UIC Permit

Statement of Basis

FOR RECORD CHLY

cc:

Letter only:

Uintah & Ouray Business Committee, Ute Indian Tribe:

Curtis Cesspooch, Chairman Irene Cuch, Vice-Chairwoman Frances Poowegup, Councilwoman Ronald Groves, Councilman

Phillip Chimburas, Councilman Steven Cesspooch, Councilman

Daniel Picard, Superintendent Uintah & Ouray Indian Agency U.S. Bureau of Indian Affairs

cc: all enclosures:

Michael Guinn
District Manager
Newfield Production Company
Myton, Utah

Larry Love
Director
Energy & Minerals Dept.
Ute Indian Tribe

Elaine Willie Gap Coordinatorr Ute Indian Tribe

Michelle Sabori Acting Director Land Use Dept. Ute Indian Tribe

Gilbert Hunt Assistant Director State of Utah - Natural Resources

Fluid Minerals Engineering Dept. U.S. Bureau of Land Management Vernal, Utah

#### **\$EPA**

# UNDERGROUND INJECTION CONTROL PROGRAM PERMIT

PREPARED: November 2008

Permit No. UT21101-07423

Class II Enhanced Oil Recovery Injection Well

Federal 3-33-8-18 Uintah County, UT

Issued To

**Newfield Production Company** 

1001 Seventeenth Street, Suite 2000 Denver, CO 80202

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#### Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 3-33-8-18 424' FNL & 1594' FWL, NENW S33, T8S, R18E Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: NOV 2 0 2008 Effective Date

Stephen S. Tuber

Assistant Regional Administrator\*

Office of Partnerships and Regulatory Assistance

\*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

#### PART II. SPECIFIC PERMIT CONDITIONS

#### Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

#### 1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

#### 2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

#### 3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
  - (i) on the injection tubing; and
  - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

#### 4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

#### 5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

#### 6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

#### Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

#### 1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

#### 2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

#### 3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

#### 4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

#### Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

# 1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

Reference Appendix F-1(Corrective Action Requirements) and schematic diagram Appendix F-2, Federal No. 14-28-8-18, citing Permittee action relative to the absence of adequate 80% bond index cement bond within the Confining Zone

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
  - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
  - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

#### 2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

#### 3. Injection Pressure Limitation

(a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW. (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

#### 4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

#### 5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

### 6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

#### Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

#### 1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;

(c) the analytical techniques or methods used for analysis.

#### 2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.
- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

#### 3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

## 4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

#### Section E. PLUGGING AND ABANDONMENT

#### 1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

#### 2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

#### 3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

#### 4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

#### 5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

(a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or

(b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

# 6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

# PART III. CONDITIONS APPLICABLE TO ALL PERMITS

#### Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

#### Section B. CHANGES TO PERMIT CONDITIONS

#### 1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

#### 2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

#### 3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

# 4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

# 5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

#### Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

#### Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

#### Section E. GENERAL PERMIT REQUIREMENTS

## 1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

#### 2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

#### 3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

#### 4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

#### 5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

#### 6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

#### 7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

#### 8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

#### 9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit:

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

## 10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

### 11. Reporting Requirements.

Permit UT21101-07423

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
  - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
  - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

- In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

#### Section F. FINANCIAL RESPONSIBILITY

#### 1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

#### 2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee: or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

#### **APPENDIX A**

# WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal No. 3-33-8-18 was drilled to a total depth of 6270 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 312 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6257 feet (KB) in a 7-7/8 inch hole with 375 sacks of Premium Lite II and 475 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 760 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 190 feet. CBL analysis does identify adequate 80% bond index cement bond within the Confining Zone.

The schematic diagram shows enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3993 feet and the top of the Wasatch Formation (Estimated to be 6297 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

# Federal 3-33-8-18

Spud Date, 02/03/06 Put on Production: 03/24/06 K.B.: 4979, G.L.: 4967

Proposed Injection Wellbore Diagram

Initial Production: MCFD. BWPD

BOPD.

#### SURFACE CASING

CSG SIZE: 8-5/8"

B250 45006

<220

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (300.63°)

DEPTH LANDED: 312.48 KBGreen River

1683

CEMENT DATA: 100 sxs Class "G" emit, est 5 bbls emit to surf.

#### PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55 WEIGHT: 15.5#

Mahogany Bench 3224-3244

LENGTH: 148 jts (6243.89°)

DEPTH LANDED 6257, LEKE BOK Bond 3593 4734

HOLE SIZE: 7-7/8"

CEMENT DATA: 378 sxs Prem. Life II mixed & 475 sxs 50/50 POZ

CEMENT TOP AT: 190°

#### TUBING

SIZE/GRADE/WTL: 2-7/8" / J-55 / 6,5#

NO. OF JOINTS: 187 jts. (5835.75')

TUBING ANCHOR: 5845.75' KB

NO. OF JOINTS: 2 jts (62.48')

SEATING NIPPLE: 2-7/8" (1.10")

SN LANDED AT: 5911.03" KB

NO OF JOINTS: 2 jts (61.771)

TOTAL STRING LENGTH: EOT (d) 5974.35° KB

### FRAC JOB

03/20/05 5878-5896

03/20/06 52 10-52841

766 TOC/EPA 03/20/06 4547-1570

312'

03/20/06 4460-4486

Frac B2 sands as follows:

63283# 20/40 sand in 492 bbls Lightning17 frac fluid. Treated (# avg press of 1783 psi wravg rate of 25.5 BPM, ISIP 2320 psi, Calc flush: 5282 gal, Actual flush: 5250 gal.

w/avg rate of 25.5 BPM, ISIP 1550, psi, Cale

flush; 5894 gal. Actual flush; 5880 gal.

Frac GB4 sands as follows

Frac CP2, sands as follows: o5747# 20/40 sand in 533 bbls Lightning 17 frac fluid. Treated @ avg press of 1298 psi

99846# 20/40 sand 700 bbls Lightning 17 frac fluid. Treated @ avg press of 1718 psi w/avg rate of 25.4 BPM, ISIP 2085, psi, Cale flush: 4568 gal, Aethal flush: 4578 gal.

Frue CR2 sands as follows:

26177# 20/40 sand in 324 bbls Lightning 17 frac fluid. Treated (a) avg press of 2080 psi w/avg rate of 25.3 BPM, ISIP 2045 psi, Cale flush; 4484 gal. Actual flush; 4368 gal.

3813-3993 Confining Zone 3993 Garden Gulch

A' Confining Shale 4114-4190' Br Confining Shale 4722- 4310'

Packer (d. 4425

4460-4465 4.181 - 4486°

= 4547-4570°

5046 Douglas Creek

5270-52841

PERFORATION RECORD

03/20/06 5270-52841 4 JSPF 56 holes 03/20/06 4547-4570 4.18PF92 holes 03/20/06 1481-1486 03/20/06 1460-1465 4 JSPF 20 holes 20 holas

5785-5795 CESHE Pezh

E. 3878-3896

NEWFIELD

Federal 3-33-8-18

425' FNL & 1594' FWI

NE/NW Section 33-T88-R18E

Umtab Co, Ettaly

APR 443 4847 180 to Love of 11 74872

6172 Basal Carbon 2 ta

SHOE 46-625"

Est Wassteh 6297'

# APPENDIX B

# LOGGING AND TESTING REQUIREMENTS

#### Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

No corrective action is deemed necessary for the proposed Class II enhanced recovery well, Federal No. 3-33-8-18.

LOGGING REQUIREMENT ONLY FOR AREA-OF-REVIEW WELL FEDERAL NO. 14-28-8-18.

The Cement Bond Log (CBL) for Area-of-Review well Federal 14-28-8-18 does not demonstrate 80% bond index cement bond within the Green River Confining Zone or above the uppermost three (3) sets of basal Garden Gulch perforations. For this reason, the Federal No. 14-28-8-18 shall undergo Part II mechanical integrity testing, i.e., temperature logging on a routine basis prescribed by the EPA.

Prior to receiving EPA authorization to commence injection into Federal No. 3-33-8-18, the Permittee shall run a Temperature Log demonstrating current annulus conditions and submit same to the EPA with Permittee analysis. Additional Temperature Logs, on the Federal No. 14-28-8-18, shall be routinely conducted on five (5) year intervals for observation of potential injectate annulus flow. At no time shall annulus injectate flow rise above the top of the Garden Gulch Member.

The Permittee shall submit the Temperature Log and Permittee analysis to the EPA Class II Underground Injection Control section within fifteen (15) days of Permittee receiving the Temperature Log.

Permittee may request a Minor Permit Modification relative to revising the five (5) year scheduling of Temperature Log surveys after successfully demonstrating EPA-acceptable Part II Mechanical Integrity with the second Temperature Log.

#### NO LOGGING REQUIREMENTS

#### Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

TYPE OF TEST	DATE DUE
Step Rate Test	Within a 180-day period following commencement of injection
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once within a five (5) year period following the last successful test.

#### **APPENDIX C**

# **OPERATING REQUIREMENTS**

#### **MAXIMUM ALLOWABLE INJECTION PRESSURE:**

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
WELL NAME	ZONE 1 (Upper)
Federal 3-33-8-18	1,160

### **INJECTION INTERVAL(S):**

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT
FORMATION NAME	TOP	BOTTOM	(psi/ft)
Green River: Garden Gulch and Douglas Creek Members	3,993.00	- 6,297.00	0.700

#### **ANNULUS PRESSURE:**

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

#### **MAXIMUM INJECTION VOLUME:**

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

# **APPENDIX D**

# MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE I	MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS
	Injection pressure (psig)
OBSERVE AND RECORD	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

	ANNUALLY
	Injected fluid total dissolved solids (mg/l)
ANALYZE	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

	ANNUALLY
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

Newfield Production Company 1001 Seventeenth Street - Suite 2000 Denver, CO 80202

### APPENDIX E

# PLUGGING AND ABANDONMENT REQUIREMENTS

# See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 3135 feet to 3295 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 3135 feet to 3295 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1630 feet - 1730 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1630 feet to 1730 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 362 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Attachment Q-2

# Federal 3-33-8-18

Spud Date, 02/03/06 Put on Production: 03-24-06

K.B :4979 G.L.: 4967

Proposed P&A Wellbore Diagram

# SURFACE CASING CSG SIZE 8-5/8" GRADE 3-55

WEIGHT, 24#

LENGTIL 7 jts. (300,631)

DEPTH LANDED: 312 481 KB

HOLE SIZE:12-1/4"

CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

# PRODUCTION CASING PRODUCTION CASING

CSG SIZE: 5-1/2\*

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 148 jts. (6243.80°) Cement Plug 3135-3295
DEPTH LANDED: 6257.14 KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 375 sxs Prem. Life H mixed & 475 sxs 50/50 POZ.

CEMENT TOP AT: 190

80% BOND 3593- 4734"

Pump 42 sx Class G Cement down 5-1/2" casing to 362

362

Green River 1683

3/88 - Tronz 3224-3244 Mahog 2ny Bench

3813-3993 Gnfining Zone 3993 Guden Gull

20'4 (Class G Cement plug on top of CIBP

CHBP 50'2 bove toppet.

4481-4486

4547-4570

5046 Douglas Crach

5270-5284

5878-5896

# NEWFIELD

#### Federal 3-33-8-18

425 FMT & 1504 FWT

SECHW Section 33-F88-R18E

Umtah Co Diah

JEL141 047 18070 Lyang WITE 74872

6172 Basal Carbonate

SHOE in 6251

11) as 62°6

Est. Wasatch

#### APPENDIX F

# **CORRECTIVE ACTION REQUIREMENTS**

The Federal No. 14-28-8-18 will be monitored weekly at the surface for evidence of fluid movement out of the injection zone.

In addition, Newfield developed a corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone".

If possible fluid movement out of the injection zone is identified, either through the weekly monitoring, through Newfield's July 10, 2008 procedure described above, or through any other means (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, tubing-casing annulus pressure readings, or other evidence of a mechanical integrity failure), the Permittee will shut in the Federal No. 3-33-8-18 well immediately and notify the Director. No injection into the Federal No. 3-33-8-18 well will be permitted until the Permittee has notfied the Director that the situation has been resolved, submitted Rework Records (EPA Form No. 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.

# PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 3135 feet to 3295 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 3135 feet to 3295 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1630 feet - 1730 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1630 feet to 1730 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 362 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

# Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

# PART VIII. Financial Responsibility (40 CFR 144.52)

### **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Financial Statement approved by the EPA February 22, 2008.	
Financial Statement, received April 22, 2005	

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

# **STATEMENT OF BASIS**

# NEWFIELD PRODUCTION COMPANY FEDERAL 3-33-8-18 UINTAH COUNTY, UT

# **EPA PERMIT NO. UT21101-07423**

**CONTACT:** Emmett Schmitz

U. S. Environmental Protection Agency Ground Water Program, 8P-W-GW

1595 Wynkoop Street

Denver, Colorado 80202-1129

Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

# PART I. General Information and Description of Facility

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

on

September 19, 2006

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Federal 3-33-8-18 424' FNL & 1594' FWL, NENW S33, T8S, R18E Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal No. 3-33-8-18 is currently an active Green River Formation, Garden Gulch and Douglas Creek Members, oil well. It is the initial intent of the applicant to use current production perforations for Class II enhanced recovery injection. The Federal No. 3-33-8-18 has total depth in the Basal Carbonate Member. The Confining Zone has adequate 80% bond index cement bond.

	TABLE 1.1	
WELL STA	ATUS / DATE OF OPERAT	TION
	NEW WELLS	
Well Name	Well Status	Date of Operation
Federal 3-33-8-18	New	N/A

# PART II. Permit Considerations (40 CFR 146.24)

# **Hydrogeologic Setting**

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-vielding units in the Uinta-Animas aguifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aguifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

# **Geologic Setting (TABLE 2.1)**

The proposed enhanced oil recovery injection well is located in the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time. creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The

Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

# TABLE 2.1 GEOLOGIC SETTING

#### Federal 3-33-8-18

Formation Name	Top (ft)	Base (ft)	TDS	6 (mg/l)	Lithology
Uinta USDW	0	220	220 < 10,000		Sand and shale
Uinta	220	1,683			Intebedded sand, shale and carbonate with fluvial sand and shale
Green River	1,683	3,993			Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Trona	3,188	3,224			Evaporite
Green River: Mahogany Bench	3,224	3,244			Oil shale
Green River: Garden Gulch	3,993	5,046	>	10,000	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale
Green River: Douglas Creek	5,046	6,172	>	10,000	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale
Green River: Basal Carbonate	6,172	6,297			Carbonate

# Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The Environmental Protection Agency (EPA) approved interval for Class II enhanced recovery injection into the Federal No. 3-33-8-18 is located between the top of the Garden Gulch Member (3993 feet) and the top of the Wasatch Formation estimated to be 6297 feet.

# TABLE 2.2 INJECTION ZONES

#### Federal 3-33-8-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River: Garden Gulch and Douglas Creek Members	3,993	6,297	> 10,000	0.700		N/A
* C - Currently Exempted E - Previously Exempted P - Proposed Exemption N/A - Not Applicable						

# Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 180-foot (3813 feet - 3993 feet) shale and argillaceous, impermeable siltstone Confining Zone directly overlies the top of the Garden Gulch Member. Within this Confining Zone are two (2) intervals of requisite 80% bond index cement bond.

	TABLE 2.3		
	CONFINING ZONES		
	Federal 3-33-8-18		
Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	Shale with interbedded thin argillaceous impervious siltstone	3,813	3,993
Green River	Shale with thin argillaceous impervious siltstone	4,114	4,190
Green River	Shale with thin argillaceous impervious siltstone.	4,222	4,310

# Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green

River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah "Water Wells and Springs" identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal No. 3-33-8-18.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 220 feet from the surface. Absent definitive information relaltive to the water quality of the Uinta Formation, from the depth of 220 feet to the base of the Uinta Formation (1683 feet), the EPA will require, during plugging and abandonment, a cement plug at the base of the Uinta Formation to protect contamination of possible Uinta USDWs.

# TABLE 2.4 UNDERGROUND SOURCES OF DRINKING WATER (USDW)

#### Federal 3-33-8-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)	
Uinta	Sand and shale	0	220	< 10,000	
Uinta	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.	220	1,683		

# PART III. Well Construction (40 CFR 146.22)

The Federal No. 3-33-8-18 was drilled to a total depth of 6270 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 312 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6257 feet (KB) in a 7-7/8 inch hole with 375 sacks of Premium Lite II and 475 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

The EPA calculates the top of cement as 760 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 190 feet. CBL analysis does identify adequate 80% bond index cement bond within the Confining Zone.

The schematic diagram shows enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3993 feet and the top of the Wasatch Formation (Estimated to be 6297 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

# TABLE 3.1 WELL CONSTRUCTION REQUIREMENTS

Federal 3-33-8-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Production	7.88	5.50	0 - 6,257	190 - 6,257
surface	12.25	8.63	0 - 312	0 - 312 -

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

### Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

#### **Tubing and Packer**

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

#### **Tubing-Casing Annulus (TCA)**

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored under conditions of the Permit.

#### **Monitoring Devices**

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

# PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

Reference Appendix F-1 (Corrective Action Requirements) and schematic diagram (Appendix F-2), Federal No. 14-28-8-18, citing Permittee action relative to the absence of adequate 80% bond index cement bond within the Confining Zone.

TABLE 4.1  AOR AND CORRECTIVE ACTION							
Well Name	Туре	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)		
Federal 14-28-8-18	Producer	No	6,200	2,120	Yes		
Federal 14a-28-8-18	Producer	No	6,280	600	No		
Federal 5-33-8-18	Producer	No	6,190	160	No		
Sundance Fed'l 4-33-8-18	Producer	No	6,285	300	No		

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

#### **Area Of Review**

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

#### **Corrective Action Plan**

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

# TABLE 5.1 INJECTION ZONE PRESSURES

Federal 3-33-8-18

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River: Garden Gulch and Douglas Creek Members	4,460	0.700	1,160

### Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate shall be a blend of culinary water from the Johnson Water District reservoir and/or water from the Green River pipeline, and produced Green River water from wells proximate to the Federal No. 3-33-8-18.

### **Injection Pressure Limitation**

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

#### **Injection Volume Limitation**

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or daily volume of authorized Class II fluid

injected into the approved Green River Formation interval. The Permittee shall not exceed the maximum authorized injection pressure of 1160 psig.

### Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

- 1. there is no significant leak in the casing, tubing, or packer (Part I); and
- 2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

# PART VI. Monitoring, Recordkeeping and Reporting Requirements

### **Injection Well Monitoring Program**

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

# PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 3135 feet to 3295 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 3135 feet to 3295 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1630 feet - 1730 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1630 feet to 1730 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 362 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

#### **Plugging and Abandonment Plan**

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

# PART VIII. Financial Responsibility (40 CFR 144.52)

# **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Financial Statement approved by the EPA February 22, 2008.
Financial Statement, received April 22, 2005

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING USA UTU-74872 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME; Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged SUNDANCE UNIT wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8. WELL NAME and NUMBER: 1. TYPE OF WELL: OIL WELL X GAS WELL OTHER FEDERAL 3-33-8-18 2. NAME OF OPERATOR: 9. API NUMBER: 4304735979 NEWFIELD PRODUCTION COMPANY 10. FIELD AND POOL, OR WILDCAT: 3. ADDRESS OF OPERATOR: PHONE NUMBER MONUMENT BUTTE Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 435.646.3721 4. LOCATION OF WELL: FOOTAGES AT SURFACE: 272 FNL 1594 FWL COUNTY: UINTAH OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW, 33, T8S, R18E STATE: LIT CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION DEEPEN ACIDIZE REPERFORATE CURRENT FORMATION ■ NOTICE OF INTENT ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL (Submit in Duplicate) NEW CONSTRUCTION TEMPORARITLY ABANDON CASING REPAIR Approximate date work will CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR VENT OR FLAIR CHANGE TUBING PLUG AND ABANDON WATER DISPOSAL ■ SUBSEOUENT REPORT CHANGE WELL NAME PLUG BACK (Submit Original Form Only) WATER SHUT-OFF X CHANGE WELL STATUS PRODUCTION (START/STOP) Date of Work Completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: -02/17/2009 X CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 2/13/09 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that

On 2/13/09 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 2/18/09. On 2/18/09 the csg was pressured up to 1450 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 150 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT21101-07423

API# 43-047-35979

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Callie Ross	TITLE	Production Clerk
SIGNATURE (DECEE ROSS	_ DATE_	02/25/2009
•		

(This space for State use only)

RECEIVED MAR 0 2 2009

# Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

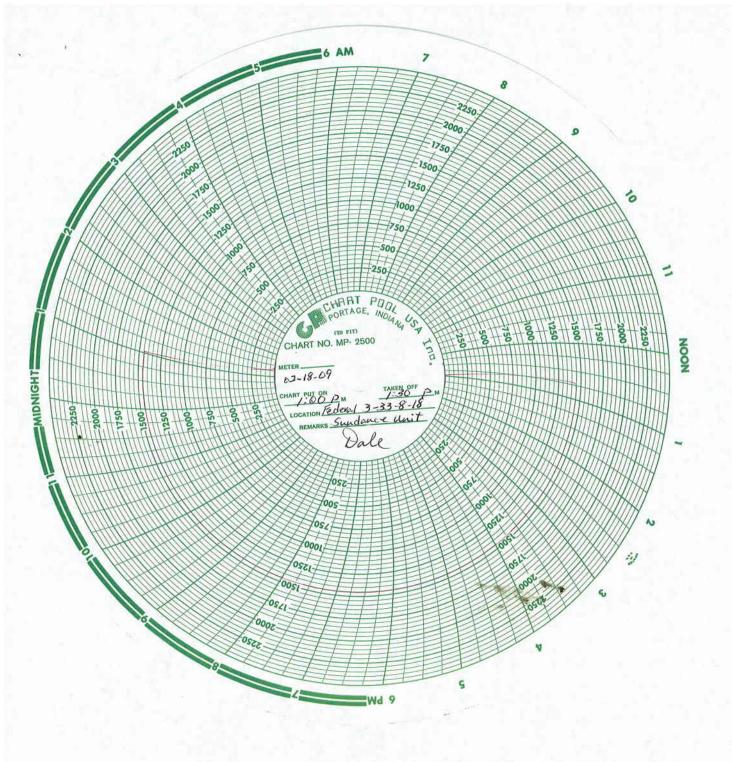
U.S. Environmental Protection Agency Underground Injection Control Program 999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness:  Test conducted by:  Others present:			Date	: <u>02/18</u>	109	
Well Name: Federa Field: Sundan Location: Se Operator: New Cie	e Unit c:33 T& N( Id Production	\$ R <u>/1</u>	<b>E</b> W Cou	nty: Unta		
Is this a regularly schedule Initial test for permit? Test after well rework? Well injecting during test? Pre-test casing/tubing annul	[\(\) Ye [ ] Ye	es [ es [ es [		es, rate:		_ bpd
MIT DATA TABLE	Test #1		Test #2		Test	#3
TUBING	PRESSURE		<del> </del>			
Initial Pressure	180	psig		psig		psig
End of test pressure	120	psig ———		psig		psig
CASING / TUBING	ANNULUS		PRESSURI		r=====================================	
0 minutes	1450	psig		psig		psig
5 minutes	1450	psig		psig		psig
10 minutes	1450	osig		psig		psig
15 minutes		osig		psig		psig
20 minutes		osig		psig		psig
25 minutes		osig		psig		psig
30 minutes		osig		psig		psig
minutes		osig		psig		psig
minutes	ı	osig		psig		psig
RESULT	Pass [	]Fail	[ ] Pass	[ ]Fail	[ ] Pass	Fail

Does the annulus pressure build back up after the test? [ ] Yes No

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:



#### FEDERAL 3-33-8-18 11/1/2008 To 5/28/2009

2/11/2009 Day: 1 Conversion

Nabors #1111 on 2/10/2009 - MIRU Nabors #1111. Hot oiler had pumped 65 BW down csg @ 250°. RD pumping unit. Rods wouldn't unseat. Hot oiler pumped additional 65 BW down csg. Unseat rod pump. Flush tbg & rods w/ 40 BW @ 250°. LD 75-3/4" guided rods. SWIFN.

2/12/2009 Day: 2 Conversion

Nabors #1111 on 2/11/2009 - Continue LD rods as follows: 100- 3/4" guided rods, 120- 3/4" plain rods, 10- 3/4" guided rods, 6- 1 1/2" weight rods & CDI 2 1/2" X 1 1/2" X 16' RHAC rod pump. X-over for tbg. ND wellhead. NU BOP. TA was not set. TOOH w/ tbg as follows (breaking collars & applying liquid O-ring to threads): 187- jts 2 7/8" J-55 tbg, TA, 2- jts 2 7/8" J-55 tbg, NC. SWIFN.

2/13/2009 Day: 3 Conversion

Nabors #1111 on 2/12/2009 - TIH w/ 50- jts 2 7/8" tbg. LD 51- jts 2 7/8" tbg. PU & TIH w/ injection string as follows: Arrowset 1-X packer, SN, 141- jts 2 7/8" J-55 tbg. Flush tbg w/ 40 BW. Drop standing valve. Fill tbg & pressure test to 3000 psi. Pressure test was not holding. RU sandline. RIH w/ fishing tool on sandline & retrieve standing valve. Drop new standing valve & pressure tbg to 3000 psi. SWIFN.

2/14/2009 Day: 4 Conversion

Nabors #1111 on 2/13/2009 - Check pressure on tbg, 2300 psi, lost 700 psi over night. Bleed gas off tbg & pressure to 3000 psi. Lost 200 psi in 20 min. Bleed pressure off well. TOOH w/ 70- jts tbg. Pressure tbg to 3000 psi, no test. TOOH w/ 36- jts tbg & pressure to 3000 psi, no test. TOOH w/ 16- jts tbg & packer. LD packer & pressure 1- jt to 3000 psi, no test. Change out SN, pressure test to 3000 psi, good test. TIH w/ 40- jts tbg & pressure test to 3000 psi, good test. TIH w/ 50- jts tbg, pressure test to 3000 psi, good test. TIH w/ 52- jts tbg & pressure test tbg to 3000 psi, held test for 30 minutes w/ 0 psi loss. RIH w/ fishing tool on standing valve & retieve standing valve. RD sandline. SWIFN.

2/18/2009 Day: 5 Conversion

Nabors #1111 on 2/17/2009 - RD rig floor. ND BOPs. NU wellhead. RU hot oiler. Pump 60 bbls packer fluid down tbg- csg annulus. ND wellhead. Set Arrowset 1-X packer w/ CE @ 4444' & EOT @ 4449'. NU wellhead. Fill tbg- csg annulus w/ 35 bbls packer fluid. Pressure annulus to 1400 psi. Held pressure test for 30 minutes w/ 0 psi loss. RDMOSU. Ready for MIT!

2/19/2009 Day: 6 Conversion

Rigless on 2/18/2009 - On 2/13/09 Margo Smith with the EPA was contacted concerning the initial MIT on the above listed well

(Fed 3-33-8-17). Permission was given at that time to perform the test on 2/18/09. On 2/18/09 the csg was pressured up to 1450 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 150 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21101-07423 API# 43-047-35979



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

## MAR 12 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Michael Guinn District Manager Newfield Production Company Route 3 - Box 3630 Myton, UT 84052 Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RE: Authority to Commence Injection EPA UIC Permit UT21101-07423 Federal No. 3-33-8-18

Federal No. 3-33-8-18
Uintah County, Utah
API #: 43-047-35979

Dear Mr. Guinn:

Newfield Production Company (Newfield) has satisfactorily completed Environmental Protection Agency (EPA) **Prior to Commencing Injection** requirements for Final Permit, UT21101-07423, effective November 20, 2008. The Part I (Internal) Mechanical Integrity Test (MIT), Well Rework Record (EPA Form No. 7520-12), schematic diagram, and pore pressure, were reviewed and approved by EPA on March 9, 2009.

As of the date of this letter, Newfield is authorized to commence injection into Federal No. 3-33-8-18 at a maximum allowable injection pressure (MAIP) of **1,160 psig**. Until such time as the Permittee demonstrates through a Step Rate Test (SRT) that the Fracture Gradient (FG) is other than 0.070 psi/ft, Federal No. 3-33-8-18 shall be operated at a MAIP no greater than **1,160 psig**.

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MAR 17 2009

DIV. OF OIL, GAS & MINING

As of this approval, responsibility for permit compliance and enforcement is transferred to Region 8 UIC Technical Enforcement Program office. Therefore, please direct all monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well to:

Mr. Nathan Wiser Technical Enforcement Program – UIC U.S. EPA Region 8: Mail Code 8ENF-UFO 1595 Wynkoop Street Denver, CO 80202-1129

Or, you may reach Mr. Wiser by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211.

Please remember that this your responsibility to be aware of and to comply with all conditions of injection well Penot UT21101 -07423.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174.

Sincerely,

Steven Pratt, P.E., CAPM (Inactive) Director, Ground Water Program

cc: Uintah & Ouray Business Committee, Ute Indian Tribe
Curtis Cesspooch, Chairman
Irene Cuch, Vice-Chairwoman
Frances Poowegup, Councilwoman
Ronald Groves, Councilman
Phillip Chimburas, Councilman
Steven Cesspooch, Councilman

Daniel Picard, Superintendent Uintah & Ouray Indian Agency U.S. Bureau of Indian Affairs

Eric Sundberg Newfield Production Company Denver, CO Larry Love Director Energy & Minerals Dept. Ute Indian Tribe

Ferron Secakuku Director Natural Resources Ute Indian Tribe

Gilbert Hunt Associate Director State of Utah – Division of Oil, Gas & Mining

Fluid Minerals Engineering Dept. U.S. Bureau of Land Management Vernal, Utah FORM 3160-5 (August 2007)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: July 31,2010

BUREAU OF LAND MANAGEMENT				5. Lease Serial No.		
	Y NOTICES AND REP			USA UTU-748	872	
Do not use abandoned v	this form for proposals to the contract of the	to drill or to re-enter a NPD) for such proposa	n ils.		ottee or Tribe Name.	
SUBMIT II	N TRIPLICATE - Other	Instructions on page	2	7 If Unit or CA/	Agreement, Name and/or	
1. Type of Well				SUNDANCE UNIT		
Oil Well Gas Well	Other			8. Well Name an	nd No.	
2. Name of Operator				FEDERAL 3-33	3-8-18	
NEWFIELD PRODUCTION C	OMPANY			9. API Well No.		
3a. Address Route 3 Box 3630		3b. Phone (include a	re code)	4304735979		
Myton, UT 84052		435.646.3721		· 1	ol, or Exploratory Area	
4. Location of Well (Footage, 272 FNL 1594 FWL	Sec., T., R., M., or Survey Desc	ription)		MONUMENT 11. County or Pa		
NENW Section 33 T8S R18E				UINTAH, UT		
12. CHEC	K APPROPRIATE BOX(	ES) TO INIDICATE N	ATURE OF		THER DATA	
TYPE OF SUBMISSION	<u> </u>		PE OF ACTIO			
	☐ Acidize	☐ Deepen	Produc	tion (Start/Resume)	☐ Water Shut-Off	
Notice of Intent	Acidize  Alter Casing	Fracture Treat	Reclan	,	Well Integrity	
Б	I <del></del>	New Construction	Recom		=	
Subsequent Report	Casing Repair			•	- 00101	
Final Abandonment	☐ Change Plans ☐ Convert to Injector	Plug & Abandon Plug Back	= .	rarily Abandon Disposal	Change status, put well on injection	
UT 21101-0	ell was put on injection at 2		-u Cas	ed by the ivision of and Mining CORD ONL	<b>Y</b>	
I hereby certify that the foregoing	is true and	Title				
correct (Printed/ Typed)		Office Mana	per			
Kathy Chapman Signature	11	Date Date				
Signature Scithy.	Magne	03/24/2009				
	THIS SPACE F	OR FEDERAL OR S	TATE OFF	CE USE		
Approved by		Title		Da	ate	
Conditions of approval, if any, are attac certify that the applicant holds legal or	equitable title to those rights in the s		ce	· ·		
which would entitle the applicant to con- Title 18 U.S.C. Section 1001 and Title States any false, fictitious and frauduler	43 U.S.C. Section 1212, make it a cr	ime for any person knowingly an	d willfully to make	to any department or a	RECEIVED	

(Instructions on page 2)

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

MAR 2 6 2009

FORM 3160-5 (August 2007)

1. Type of Well

2. Name of Operator

4. Location of Well

272 FNL 1594 FWL

Oil Well Gas Well

3a. Address Route 3 Box 3630

**NEWFIELD PRODUCTION COMPANY** 

Myton, UT 84052

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

EINTERIOR Exp NAGEMENT 5. Lease Serial No.

(include are code)

FORM APPROVED OMB No. 1004-0137 Expires: July 31,2010

SUNDRY NOTICES AND REPORTS ON WELL	
not use this form for proposals to drill or to re-enter an	

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

Other

(Footage, Sec., T., R., M., or Survey Description)

USA UTU-74872
6. If Indian, Allottee or Tribe Name.

SUNDANCE UNIT

8. Well Name and No.

9. API Well No.

4304735979

FEDERAL 3-33-8-18

MONUMENT BUTTE

11. County or Parish, State

7. If Unit or CA/Agreement, Name and/or

10. Field and Pool, or Exploratory Area

NENW Section 33 T8S R18E			UINTAH, UT	
12. CHECK	APPROPRIATE BOX	(ES) TO INIDICATE NAT	TURE OF NOTICE, OR OT	HER DATA
TYPE OF SUBMISSION		ТҮРЕ	OF ACTION	
<ul><li>□ Notice of Intent</li><li>☑ Subsequent Report</li><li>□ Final Abandonment</li></ul>	Acidize Alter Casing Casing Repair Change Plans Convert to Injector	<ul><li>□ Deepen</li><li>□ Fracture Treat</li><li>□ New Construction</li><li>□ Plug &amp; Abandon</li><li>□ Plug Back</li></ul>	Production (Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal	Water Shut-Off Well Integrity Other Step Rate Test

3b. Phone

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

A step rate test was conducted on the subject well on August 19, 2009. Results from the test indicate that the fracture gradient is .725 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1270 psi.

Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

I hereby certify that the foregoing is true and correct <i>Printed/Typed</i> )  Chevenne Bateman	Title Well Analyst Foreman				
Signature Charles Mitt	Date 08/27/2009				
THIS SPACE FOR FEDERAL OR STATE OFFICE USE					
Approved by	Title	Date			
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office				

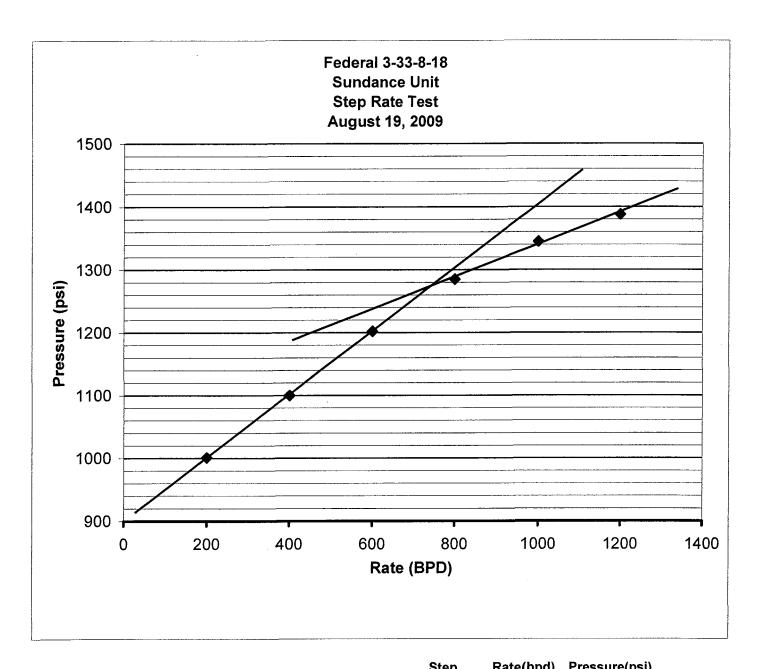
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

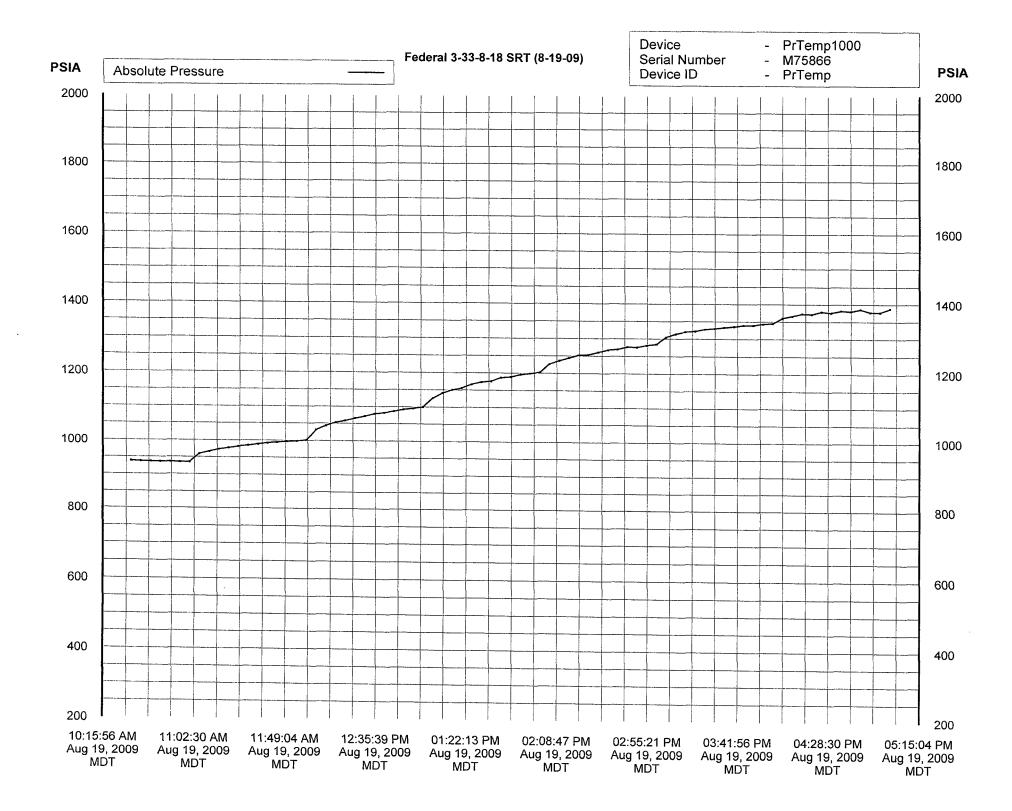
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AUG 3 1 2009

## Step Rate Test (SRT) Analysis

Date: 08/27/2009	Operator:	Newfield Pr	oduction Co	ompany	_
	Well:	Federal 3-3	3-8-18		
	Permit #:	UT21101-07	423		<del>-</del> 
Enter th	e following data :				
	Specific Gre	avity (sg) of injectate =	1.015	g/ cc	
	, , , , , , , , , , , , , , , , , , ,	top perforation $(D) = \frac{1}{2}$	4460	feet	4460
Top of permitted injection zone	depth (blank=use top perfore	ation to calculate fg) =		feet	
Estimated Fo	rmation Parting Pressure (P.	fp) from SRT chart = _	1275	psi	
In	stantaneous Shut In Pressur	re (ISIP) from $SRT = $	1335	psi	1275
Bottom Hole Parting I	Pressure (Pbhp) from downh	ole pressure recorder =		psi	no downhole
	Calculated Freet	rieo Geodioest -	0.725	/ G	
D = depth used = 4460		ture Gradient =  where: fg = Pbbp / D (Note: this formula blp used = 3235	0.725 uses the downhole recorded botto.	psi/ft. m hok parting pressure if available)	= 1335
•		wbere: fg = Pbbp / D (Note: this formula bp used = 3235			= 1335 3235.148
•	Ph Bottom Hole Parting F	wbere: fg = Pbbp / D (Note: this formula bp used = 3235	uses the downhole recorded botto.	m hole parting pressure if available) psi	
•	Ph Bottom Hole Parting F	where: fg = Pbbp / D (Note: this formula htp used = 3235  Pressure (Pbhp) =	uses the downhole recorded botto.	m hole parting pressure if available) psi	
•	Pb. <b>Bottom Hole Parting F</b> to calculate Bottom Hole Parting Pres	where: fg = Pbbp / D (Note: this formula htp used = 3235  Pressure (Pbhp) =	uses the downhole recorded botto.	m hole parting pressure if available) psi	
•	Ph. <b>Bottom Hole Parting F</b> to calculate Bottom Hole Parting Pres  (Uses lesser of ISIP or Psp) Val	where: fg = Pbhp / D (Note: this formula htp. used = 3235  Pressure (Pbhp) =	nues the downhole recorded botto.  3235  (ISIP or Pfp) + (0.433 * SG	n hole parting pressure if available)	
Calculated I	Pb.  Bottom Hole Parting F  to calculate Bottom Hole Parting Pres  (Uses lesser of ISIP or Pfp) Val	where: fg = Pbbp / D (Note: this formula htp. used = 3235  Pressure (Pbhp) =	nues the downhole recorded botto.  3235  (ISIP or Pfp) + (0.433 * SG	n hole parling pressure if available)  psi  (MAIP)  psig	



			Step	Kate(ppu)	riessure(psi)
Start Pressure:	935	psi	1	200	1001
Instantaneous Shut In Pressure (ISIP):	1335	psi	2	400	1100
Top Perforation:	4460	feet	3	600	1202
Fracture pressure (Pfp):	1275	psi	4	800	1285
FG:	0.725	psi/ft	5	1000	1345
		•	6	1200	1388



PrTemp1000 Data Table Report Name: Report Date:

Aug 21, 2009 09:08:39 AM MDT S:\Welinfo\PTC® Instruments 2.00\Federal 3-33-8-18 SRT (8-19-09).csv Federal 3-33-8-18 SRT (8-19-09) File Name:

PrTemp1000 - Temperature and Pressure Recorder Device:

REV2C (64K) Hardware Revision: Serial Number: Device ID:

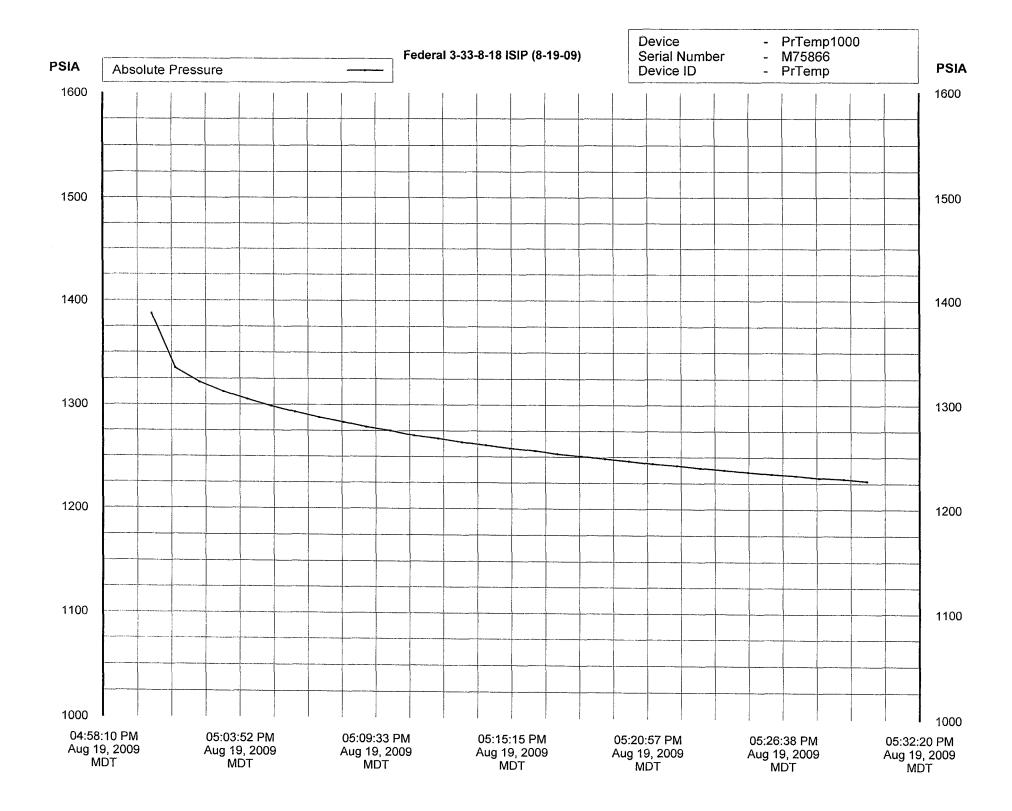
Title:

M75866 PrTemp Aug 19, 2009 10:30:00 AM MDT Aug 19, 2009 05:00:00 PM MDT Data Start Date: Data End Date:

Reading Rate: 2 Seconds 1 to 79 of 79 May 22, 2009 May 22, 2010 Readings: Last Calibration Date: Next Calibration Date:

Next Calibratio	n Date:	May 22, 2010		
Reading	Date and Time (MDT)	Absolute Pressure	<u>Annotation</u>	
1	Aug 19, 2009 10:30:00 AM	938.200 PSIA		
2	Aug 19, 2009 10:34:59 AM	937.400 PSIA		
3	Aug 19, 2009 10:40:01 AM	937.000 PSIA 936.400 PSIA		
4 5	Aug 19, 2009 10:44:59 AM Aug 19, 2009 10:50:01 AM	936.200 PSIA		
6	Aug 19, 2009 10:55:00 AM	935.600 PSIA		
7	Aug 19, 2009 11:00:01 AM	935.200 PSIA		
8	Aug 19, 2009 11:05:01 AM	959.600 PSIA		
9	Aug 19, 2009 11:10:01 AM	966.400 PSIA		
10 11	Aug 19, 2009 11:15:01 AM Aug 19, 2009 11:20:00 AM	973.600 PSIA 977.800 PSIA		
12	Aug 19, 2009 11:25:01 AM	982.400 PSIA		
13	Aug 19, 2009 11:29:59 AM	985.200 PSIA		
14	Aug 19, 2009 11:35:01 AM	988.600 PSIA		
15	Aug 19, 2009 11:40:00 AM	992.200 PSIA		
16	Aug 19, 2009 11:45:01 AM	994.600 PSIA 996.400 PSIA		
17 18	Aug 19, 2009 11:50:01 AM Aug 19, 2009 11:55:01 AM	998.200 PSIA		
19	Aug 19, 2009 12:00:00 PM	1001.200 PSIA		
20	Aug 19, 2009 12:04:59 PM	1031.800 PSIA		
21	Aug 19, 2009 12:10:00 PM	1043.800 PSIA		
22	Aug 19, 2009 12:14:59 PM	1053.200 PSIA		
23 24	Aug 19, 2009 12:20:00 PM Aug 19, 2009 12:24:59 PM	1058.600 PSIA 1066.000 PSIA		
25	Aug 19, 2009 12:30:01 PM	1071.800 PSIA		
26	Aug 19, 2009 12:35:00 PM	1079.400 PSIA		
27	Aug 19, 2009 12:40:00 PM	1082.400 PSIA		
28	Aug 19, 2009 12:45:00 PM	1087.200 PSIA		
29 30	Aug 19, 2009 12:49:59 PM Aug 19, 2009 12:55:00 PM	1092.600 PSIA 1095.600 PSIA		
30	Aug 19, 2009 12:59:59 PM	1099.600 PSIA		
32	Aug 19, 2009 01:05:00 PM	1125.800 PSIA		
33	Aug 19, 2009 01:10:00 PM	1140.800 PSIA		
34	Aug 19, 2009 01:15:00 PM	1150.600 PSIA		
35 36	Aug 19, 2009 01:20:00 PM Aug 19, 2009 01:25:00 PM	1156.000 PSIA 1166.800 PSIA		
37	Aug 19, 2009 01:30:00 PM	1173.600 PSIA		
38	Aug 19, 2009 01:35:00 PM	1176.400 PSIA		
39	Aug 19, 2009 01:40:00 PM	1186.800 PSIA		
40	Aug 19, 2009 01:44:59 PM	1189.000 PSIA		
41 42	Aug 19, 2009 01:50:00 PM Aug 19, 2009 01:54:59 PM	1195.800 PSIA 1199.600 PSIA		
42 43	Aug 19, 2009 02:00:00 PM	1202.400 PSIA		
44	Aug 19, 2009 02:05:00 PM	1227.000 PSIA		
45	Aug 19, 2009 02:10:00 PM	1236.400 PSIA		
46	Aug 19, 2009 02:15:00 PM	1244.600 PSIA		
47 48	Aug 19, 2009 02:19:59 PM Aug 19, 2009 02:25:00 PM	1252.400 PSIA 1253.600 PSIA		
49	Aug 19, 2009 02:29:59 PM	1260.800 PSIA		
50	Aug 19, 2009 02:35:09 PM	1267.800 PSIA		
51	Aug 19, 2009 02:39:59 PM	1269.600 PSIA		
52	Aug 19, 2009 02:45:00 PM	1276.800 PSIA		
53	Aug 19, 2009 02:50:01 PM	1275.600 PSIA 1281.000 PSIA		
54 55	Aug 19, 2009 02:55:00 PM Aug 19, 2009 03:00:00 PM	1284.600 PSIA		
56	Aug 19, 2009 03:04:59 PM	1305.000 PSIA		
57	Aug 19, 2009 03:10:00 PM	1314.200 PSIA		
58	Aug 19, 2009 03:14:59 PM	1320.200 PSIA		
59 60	Aug 19, 2009 03:20:00 PM Aug 19, 2009 03:24:59 PM	1322.400 PSIA 1328.200 PSIA		
60	Aug 19, 2009 03.24.09 PM	1020.200 F SIA		
	•			

61 62 63	Aug 19, 2009 03:30:00 PM Aug 19, 2009 03:35:00 PM Aug 19, 2009 03:40:01 PM	1330.400 PSIA 1333.600 PSIA 1336.000 PSIA
64	Aug 19, 2009 03:45:01 PM	1339.600 PSIA
65	Aug 19, 2009 03:49:59 PM	1340.000 PSIA 1343.200 PSIA
66 67	Aug 19, 2009 03:55:01 PM Aug 19, 2009 03:59:59 PM	1343.200 PSIA 1345.200 PSIA
67	Aug 19, 2009 03:59:59 FM Aug 19, 2009 04:05:00 PM	1360.800 PSIA
68	Aug 19, 2009 04:09:59 PM	1366.600 PSIA
69 70		1373.200 PSIA
70	Aug 19, 2009 04:15:01 PM Aug 19, 2009 04:20:00 PM	1372.200 PSIA
71	Aug 19, 2009 04:25:00 PM	1379.400 PSIA
72 72	Aug 19, 2009 04:25:00 PM	1376.200 PSIA
73	Aug 19, 2009 04:30:00 FM Aug 19, 2009 04:34:59 PM	1381.800 PSIA
74 75	Aug 19, 2009 04:34:99 FM Aug 19, 2009 04:40:00 PM	1380.200 PSIA
		1386.000 PSIA
76	Aug 19, 2009 04:44:59 PM	1377.800 PSIA
77	Aug 19, 2009 04:50:00 PM	
78 70	Aug 19, 2009 04:54:59 PM	
79	Aug 19, 2009 05:00:00 PM	1388.000 PSIA



Report Name: Report Date: File Name:

Title:

Device:

Device ID:

Hardware Revision: Serial Number:

PrTemp1000 Data Table
Aug 21, 2009 09:08:31 AM MDT
S:\Welinfo\PTC® Instruments 2.00\Federal 3-33-8-18 ISIP (8-19-09).csv
Federal 3-33-8-18 ISIP (8-19-09)

PrTemp1000 - Temperature and Pressure Recorder

REV2C (64K) M75866 PrTemp

Aug 19, 2009 05:00:11 PM MDT Aug 19, 2009 05:30:10 PM MDT Data Start Date: Data End Date:

2 Seconds 1 to 31 of 31 Reading Rate: Readings: Last Calibration Date: Next Calibration Date: May 22, 2009 May 22, 2010

Reading	Date and Time (MDT)	Absolute Pressure	Annotation
1	Aug 19, 2009 05:00:11 PM	1387.400 PSIA	
2	Aug 19, 2009 05:01:10 PM	1335.200 PSIA	
3	Aug 19, 2009 05:02:10 PM	1321.800 PSIA	
4	Aug 19, 2009 05:03:10 PM	1312.600 PSIA	
5	Aug 19, 2009 05:04:10 PM	1305.200 PSIA	
6	Aug 19, 2009 05:05:10 PM	1298.600 PSIA	
7	Aug 19, 2009 05:06:10 PM	1293.000 PSIA	
8	Aug 19, 2009 05:07:11 PM	1287.800 PSIA	
9	Aug 19, 2009 05:08:12 PM	1283.200 PSIA	
10	Aug 19, 2009 05:09:10 PM	1278.600 PSIA	
11	Aug 19, 2009 05:10:10 PM	1275.200 PSIA	
12	Aug 19, 2009 05:11:10 PM	1270.600 PSIA	
13	Aug 19, 2009 05:12:10 PM	1267.800 PSIA	
14	Aug 19, 2009 05:13:10 PM	1264.200 PSIA	
15	Aug 19, 2009 05:14:10 PM	1261.400 PSIA	
16	Aug 19, 2009 05:15:11 PM	1258.400 PSIA	
17	Aug 19, 2009 05:16:13 PM	1256.000 PSIA	
18	Aug 19, 2009 05:17:10 PM	1253.000 PSIA	
19	Aug 19, 2009 05:18:10 PM	1250.800 PSIA	
20	Aug 19, 2009 05:19:10 PM	1248.400 PSIA	
21	Aug 19, 2009 05:20:10 PM	1246.200 PSIA	
22	Aug 19, 2009 05:21:10 PM	1243.800 PSIA	
23	Aug 19, 2009 05:22:11 PM	1242.000 PSIA	
24	Aug 19, 2009 05:23:10 PM	1239.800 PSIA	
25	Aug 19, 2009 05:24:11 PM	1237.800 PSIA	
26	Aug 19, 2009 05:25:11 PM	1236.000 PSIA	
27	Aug 19, 2009 05:26:10 PM	1234.000 PSIA	
28	Aug 19, 2009 05:27:10 PM	1232.600 PSIA	
29	Aug 19, 2009 05:28:10 PM		
30	Aug 19, 2009 05:29:11 PM	1229.400 PSIA	
31	Aug 19, 2009 05:30:10 PM	1227.400 PSIA	

## Federal 3-33-8-18 Rate Sheet (8-19-09)

Step # 1	Time:	11:05 200.4	11:10 200.4	11:15 200.4	11:20 200.4	11:25 200.3	11:30 200.3
	Time: Rate:	11:35 200.3	11:40 200.3	11:45 200.2	11:50 200.2	11:55 200.1	12:00 200.1
Step # 2	Time:	12:05 400.7	12:10 400.7	12:15 400.6	12:20 400.6	12:25 400.6	12:30 400.6
	Time: Rafe:	12:35 400.6	12:40 400.5	12:45 400.5	12:50 400.5	12:55 400.5	1:00
Step #3	Time.	1:05 600.5	1:10 600.5	1:15 600.5	1:20 600.4	1:25 600.4	1:30
	Time: Rate:	1:35	1:40	1:45	1:50	1:55	2:00
Step # 4	Time: Rate:	2:05 800.5	2:10 800.5	2:15 800.5	2:20 800.5	2:25 800.3	2:30
	Time.	2:35 800.3	2:40 800.2	2:45 800.1	2:50 800.1	2:55	3:00
Step # 5	Time:	3:05 1000.6	3:10 1000.5	3:15 1000.4	3:20	3:25	3:30
	Time:	3:35	3:40	3:45	3:50	3:55 1000.1	4:00
Step # 6	Time:	4:05 1200.4	4:10 1200.4	4:15 1200.4	4:20 1200.4	4:25	4:30 1200.3
	Time: Rate:	4:35 1200.2	4:40 1200.1	4:45 1200.1	4:50 1200	4:55 1200	5:00
	H <sub>2</sub>						

Sundry Number: 46803 API Well Number: 43047359790000

	FORM 9				
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-74872				
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)				
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: FEDERAL 3-33-8-18				
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO	<b>9. API NUMBER:</b> 43047359790000				
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT		PHONE NUMBER: Ext	9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0425 FNL 1594 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NENW Section: 3	an: S	STATE: UTAH			
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEDEN	FRACTURE TREAT	NEW CONSTRUCTION		
1/9/2014		7			
	□ OPERATOR CHANGE □	PLUG AND ABANDON	L PLUG BACK		
Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION		
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
	WILDCAT WELL DETERMINATION	OTHER	OTHER: 5 YR MIT		
5 YR MIT perform casing was pressur no pressure loss. pressure was s representative av	completed operations. Clearly show all ned on the above listed well. ed up to 1512 psig and charted the well was not injecting during the test. There wallable to witness the test. Elevation of the test of the test.	On 01/09/2014 the ed for 30 minutes with ring the test. The tbg was not an EPAPA #UT22197-07423	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 13, 2014		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	<b>PHONE NUMBE</b> 435 646-4874	R TITLE Water Services Technician			
SIGNATURE		DATE 1/10/2014			

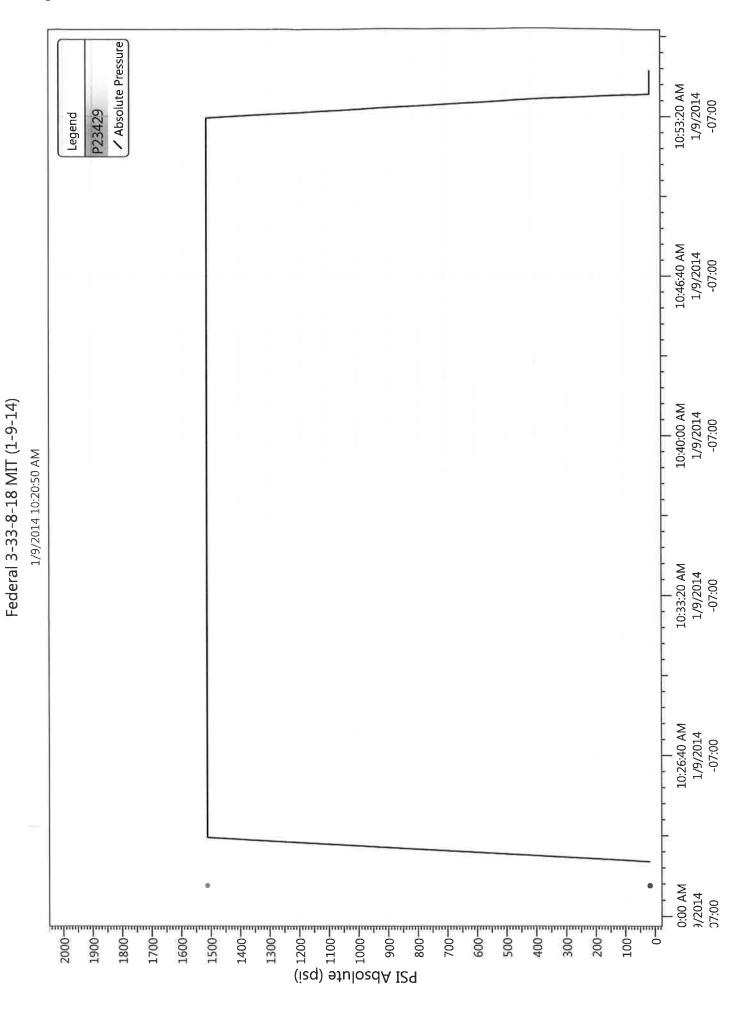
Sundry Number: 46803 API Well Number: 43047359790000 Mechanical Integrity Test

# Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: Date: / 9 / 14									
Test conducted by: Rocky Curry Others present:									
Outers present.	4		*			-04/23			
Well Name: FEDERAL 3-33-8-18 Type: ER SWD Status: AC TA UC									
Field: GRENTER MONUY									
Location: NE/NW Sec: 33 T 8 N/S R /8 B/W County: UZNTRH State: UT									
Operator: NEWFIELD EXPLORATION  Last MIT: / / Maximum Allowable Pressure: 107.5 PSIG									
LAIST WATE.	, waxanun	MIOWE	1010 1 1035410.	100		310			
Is this a regularly schedule	d test? [ Yes	[	] No	(*)					
Initial test for permit?	[ ] Yes	~	No						
Test after well rework?		[ ]	No KV	4	711				
Well injecting during test?	[V] IES	ι.	l no II i	es, rate:	29	_ pbq			
Pre-test casing/tubing annulu	ıs pressure:	/993		psig					
MIT DATA TABLE	Test #1		Test #2		Tes	t #3			
TUBING	PRESSURE								
Initial Pressure	993 ps	sig		psig		psig			
End of test pressure	994 ps	sig		psig		psig			
CASING / TUBING	ANNULUS		PRESSURE	C					
0 minutes	1512 ps	ig		psig		psig			
5 minutes	1512 ps	ig		psig		psig			
10 minutes		ig		psig		psig			
15 minutes	1512 ps	ig		psig		psig			
20 minutes	1512 ps	ig		psig		psig			
25 minutes	1512 ps			psig		psig			
30 minutes		sig		psig		psig			
minutes		sig		psig		psig			
minutes	ps	sig	1	psig		psig			
RESULT	[ Pass [ ]	Fail	[ ] Pass	[ ]Fail	[ ] Pass	[ ]Fail			
Does the annulus pressure bu	nild back up after the to			[V] No	e Test				

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness	:



## NEWFIELD

#### **Schematic**

43-047-35979

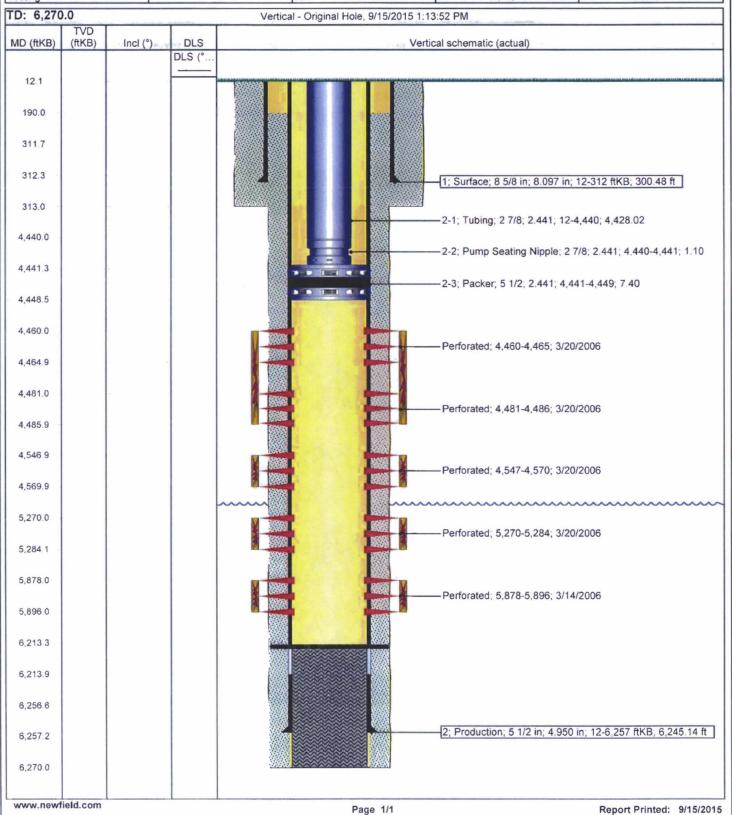
Well Name: Federal 3-33-8-18

Surface Legal Location				API/UWI		Well RC	Lease	State/Province	Field Name	County
33-8S-18E			4304735	9790000	500155786		Utah	GMBU CTB9	Uintah	
Spud Date	Rig Release Date On Production Date Original KB Elevation			(ft) Ground Elevation (ft)		Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB)		
2/3/2006	2/27/2006	3/24/2006	2006 4,979		4,967				Original Hole - 6,213.3	

 Most Recent Job

 Job Category
 Primary Job Type
 Secondary Job Type
 Job Start Date
 Job End Date

 Testing
 N/A
 1/9/2014
 1/9/2014





#### Newfield Wellbore Diagram Data Federal 3-33-8-18

33-8S-18E ,						43047359790000		Lease			
County Uintah			State/Provinc Utah	е		Basin		Field Name GMBU CTB9			
Well Start Date	2006		Spud Date	2/2/	2006	Final Rig Release Date	2006	On Production Date			
Original KB Elevation (ft)	Ground Elev	ation (ft)	Total Depth (f		2006	Total Depth All (TVD) (ftKB	(2006	3/24/2006 PBTD (All) (ftKB)			
	4,979 4,967 6,270.0						Original Hole - 6,213.3				
Casing Strings											
Csg Des Surface			Run Date 2/4/2006		OD (in) 8 5/8	ID (in) 8.097	Wt/Len (lb/ft) 24.00	J-55	Set Depth (ftKB)		
Production			2/27/2006					100 100 100 100 100 100 100 100 100 100	6,257		
Cement String: Surface, 31	12#KB 2/5	12006									
Cementing Company	IZILND ZIO	0/2006				Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)		
BJ Services Compa	any					12.0	313.0				
Fluid Description 2% CaCL2 + 1/4#/s	k Cello-Fla	ake				Fluid Type Lead	Amount (sacks)	Class	Estimated Top (ftKB) 12.0		
String: Production			06			Load	100	1	12.0		
Cementing Company						Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)		
BJ Services Compa Fluid Description	any					190.0 Fluid Type	6,270.0 Amount (sacks)	Class	Estimated Top (ftKB)		
10% gel + 3 % KCl	_, 3#'s /sk	CSE + 2# :	sk/kolseal -	+ 1/4#'s/sk	Cello Flake	Lead		Premlite II	190.0		
Fluid Description			20/ 1 2/			Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)		
2% Gel + 3% KCL,	.5%EC1,1/	/4# sk C.F.	2% gel. 39	% SM		Tail	475	50/50 POZ	3,230.0		
Tubing Strings Tubing Description						Run Date		Set Depth (ftKB)			
Tubing						A THE RESIDENCE AND A STREET	/2009	4,448.5			
Item Des		Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)		
Tubing	la.	142	2 7/8	2.441	6.50	J-55	4,428.02	12.0	4,440.0		
Pump Seating Nipp Packer	ie		2 7/8	2.441			1.10	4,440.0	4,441.1		
Rod Strings		1	5 1/2	2.441			7.40	4,441.1	4,448.5		
Rod Description				***************************************		Run Date		Set Depth (ftKB)			
Item Des		Jts	OD	(in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)		
Perforation Interva	ale	<u> </u>			L	L			L		
Stage#	Zone		Top (	ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date		
4 GB2, Orig	ginal Hole			4,460	4,465	4	90		3/20/2006		
4 GB2, Orig	ginal Hole		4,481		4,486	4	90		3/20/2006		
3 GB4, Orig	ginal Hole		4,547		4,570	4	90		3/20/2006		
2 B2, Origin	nal Hole			5,270	5,284	4	90		3/20/2006		
1 CP2, Orig	ginal Hole			5,878	5,896	4	120		3/14/2006		
Stimulations & Tre											
Stage# ISIP (psi) 1 1,550		Frac Gradient (psi/ft) Max Rate (bbl/min)		Max PSI (psi) 1,690	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)				
2			1 1		25.9 25.7	2,035					
3 2,085		1		1,975							
4	2,045 0.89 25.3										
Proppant 2,045 0.09 25.5 2,275											
Total Prop Vol Pumped											
Stage#         (lb)         Total Add Amount           1         Proppant Sand 65747 lb											
2 Proppant Sand 63283 lb											
3			Proppant								
Proppant Sand 26177 lb											
			I Passit				Yes a second sec				